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Albert Gore (D., Tenn.)
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Norris Cotton (R., N.H.)

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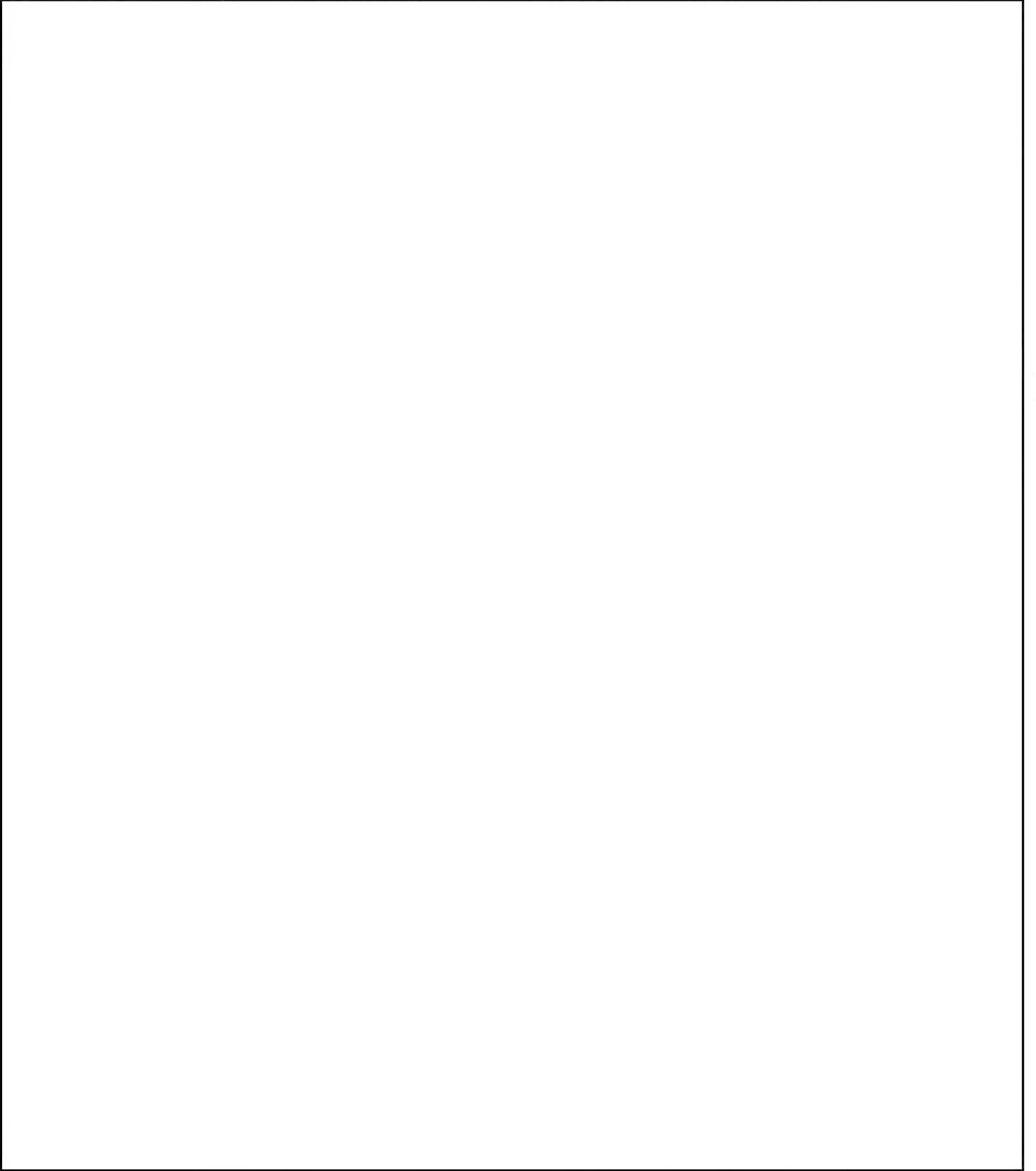
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Wayne N. Aspinall (D., Colo.)
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John Anderson (R., Ill.)
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Catherine May (R., Wash.)

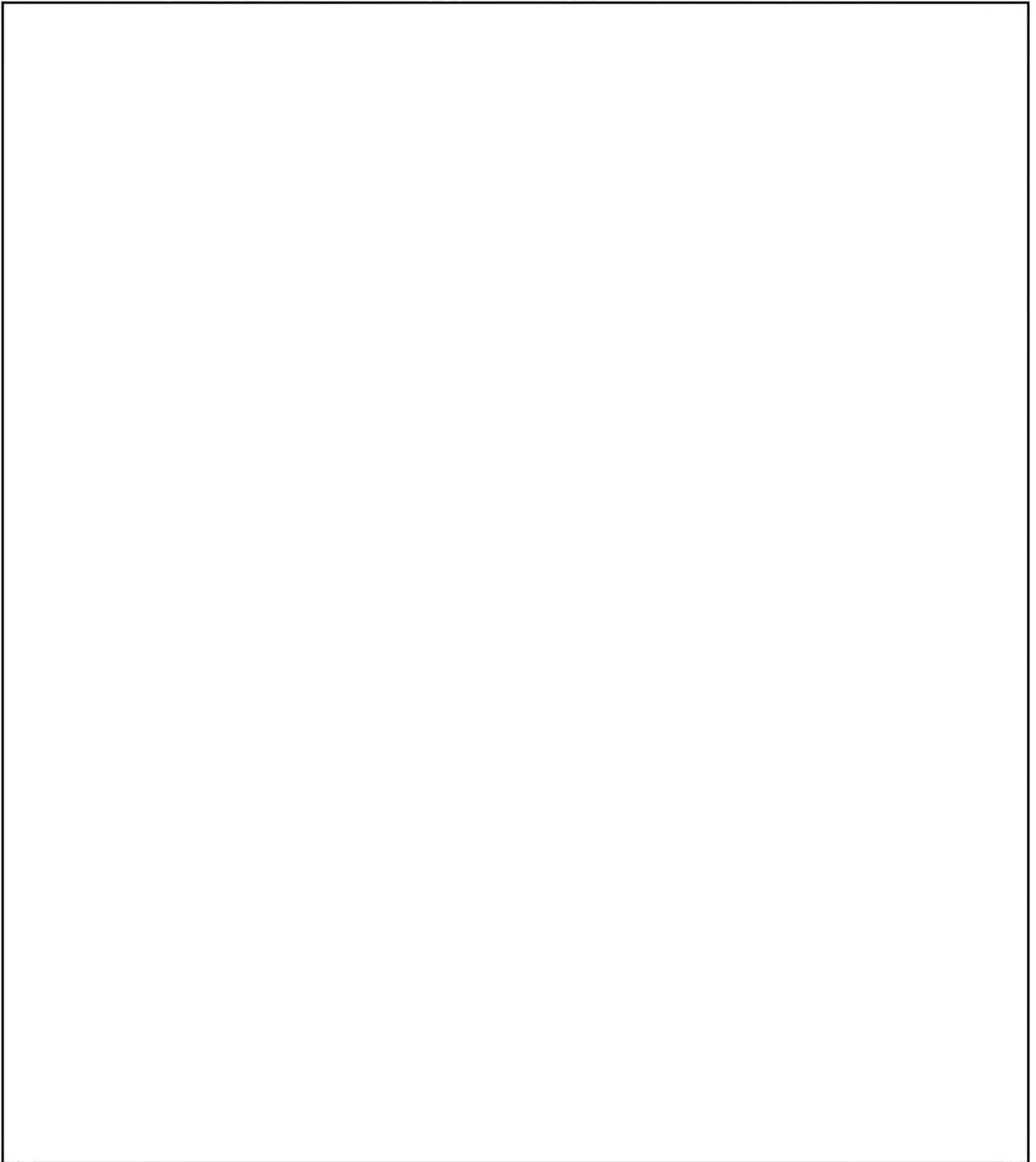
Room H 403 in the Capitol at 2:00 p.m., 10 March 1970.

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91st Congress }
2d Session }

JOINT COMMITTEE PRINT

CURRENT MEMBERSHIP
OF THE
JOINT COMMITTEE ON ATOMIC ENERGY
CONGRESS OF THE UNITED STATES

JOINT COMMITTEE ON ATOMIC ENERGY
MEMBERSHIP, PUBLICATIONS, AND OTHER
PERTINENT INFORMATION THROUGH THE
91ST CONGRESS, 1ST SESSION



MARCH 1970

Printed for the use of the Joint Committee on Atomic Energy

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JOINT COMMITTEE ON ATOMIC ENERGY

CHET HOLIFIELD, California, *Chairman*
JOHN O. PASTORE, Rhode Island, *Vice Chairman*

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JOHN YOUNG, Texas
ED EDMONDSON, Oklahoma
CRAIG HOSMER, California
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GERALD G. FAIN, *Professional Staff Member*
MATTHEW W. KEHOE, *Printing Editor*

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FOREWORD

One of the declared purposes of the Atomic Energy Act of 1954 is to provide for "the dissemination of unclassified scientific and technical information * * * so as to encourage scientific and industrial progress." It is with this policy in mind that the Joint Committee has published this pamphlet. On the pages that follow there is considerable information that can be of material assistance to any citizen desiring access to unclassified atomic energy data.

Included in the information set forth within is a comprehensive list of the unclassified publications issued by the Joint Committee since its formal establishment by Congress; references to and brief descriptions of atomic energy legislation that has been enacted since the first such enactment in 1946; a complete list of the legislative reports of the committee; a tabulation of committee reports on agreements for cooperation; and the names and locations of Atomic Energy Commission depository libraries in this country and abroad. Also included are tables tracing the membership of the committee and the Commission from their inception; a table reflecting the length of service on the committee and its various subcommittees of each current member; and a statement of the committee's organization and functions. There is also included a report to Congress on the activities and accomplishments of the committee during the most recently completed session of Congress.

It is the committee's hope that this informative publication will be of assistance to the Congress and interested citizens.

CHET HOLIFIELD,
Chairman, Joint Committee on Atomic Energy.
JOHN O. PASTORE,
Vice Chairman.

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**I. MEMBERSHIP OF THE JOINT COMMITTEE AND ITS
SUBCOMMITTEES, 91ST CONGRESS, 2D SESSION (1970)**

JOINT COMMITTEE ON ATOMIC ENERGY

CHET HOLIFIELD, California, *Chairman*

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MELVIN PRICE, Illinois
WAYNE N. ASPINALL, Colorado
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ED EDMONDSON, Oklahoma
CRAIG HOSMER, California
JOHN B. ANDERSON, Illinois
WILLIAM M. McCULLOCH, Ohio
CATHERINE MAY, Washington

RICHARD B. RUSSELL, Georgia
CLINTON P. ANDERSON, New Mexico
ALBERT GORE, Tennessee
HENRY M. JACKSON, Washington
GEORGE D. AIKEN, Vermont
WALLACE E. BENNETT, Utah
CARL T. CURTIS, Nebraska
NORRIS COTTON, New Hampshire

SUBCOMMITTEE ON AGREEMENTS FOR COOPERATION

ALBERT GORE, Tennessee, *Chairman*

CHET HOLIFIELD, California
MELVIN PRICE, Illinois
CATHERINE MAY, Washington

CLINTON P. ANDERSON, New Mexico
WALLACE F. BENNETT, Utah
NORRIS COTTON, New Hampshire

SUBCOMMITTEE ON COMMUNITIES

JOHN YOUNG, Texas, *Chairman*

ED EDMONDSON, Oklahoma
WILLIAM M. McCULLOCH, Ohio

ALBERT GORE, Tennessee
HENRY M. JACKSON, Washington
GEORGE D. AIKEN, Vermont

SUBCOMMITTEE ON LEGISLATION

JOHN O. PASTORE, Rhode Island, *Chairman*

CHET HOLIFIELD, California
WAYNE N. ASPINALL, Colorado
CRAIG HOSMER, California
JOHN B. ANDERSON, Illinois

ALBERT GORE, Tennessee
HENRY M. JACKSON, Washington
GEORGE D. AIKEN, Vermont
NORRIS COTTON, New Hampshire

SUBCOMMITTEE ON MILITARY APPLICATIONS

HENRY M. JACKSON, Washington, *Chairman*

CHET HOLIFIELD, California
CRAIG HOSMER, California
JOHN B. ANDERSON, Illinois

CLINTON P. ANDERSON, New Mexico
JOHN O. PASTORE, Rhode Island
CARL T. CURTIS, Nebraska

SUBCOMMITTEE ON RAW MATERIALS

WAYNE N. ASPINALL, Colorado, *Chairman*

CHET HOLIFIELD, California
JOHN YOUNG, Texas
ED EDMONDSON, Oklahoma
WILLIAM M. McCULLOCH, Ohio

CLINTON P. ANDERSON, New Mexico
WALLACE F. BENNETT, Utah
CARL T. CURTIS, Nebraska
NORRIS COTTON, New Hampshire

SUBCOMMITTEE ON RESEARCH, DEVELOPMENT, AND
RADIATION

MELVIN PRICE, Illinois, *Chairman*

CHET HOLIFIELD, California
CRAIG HOSMER, California
JOHN B. ANDERSON, Illinois

JOHN O. PASTORE, Rhode Island
ALBERT GORE, Tennessee
HENRY M. JACKSON, Washington
GEORGE D. AIKEN, Vermont
WALLACE F. BENNETT, Utah

SUBCOMMITTEE ON SECURITY

CLINTON P. ANDERSON, New Mexico, *Chairman*

JOHN YOUNG, Texas
WILLIAM M. McCULLOCH, Ohio
CATHERINE MAY, Washington

JOHN O. PASTORE, Rhode Island
HENRY M. JACKSON, Washington
CARL T. CURTIS, Nebraska

II. ORGANIZATION AND FUNCTIONS OF THE JOINT COMMITTEE ON ATOMIC ENERGY

The Joint Committee on Atomic Energy was first organized on August 2, 1946, pursuant to the Atomic Energy Act of 1946 (Public Law 79-585). The Joint Committee did not become fully operative, however, until the convening of the 80th Congress in 1947. The enacting legislation provided that the Joint Committee consist of nine members from the Senate and nine members from the House of Representatives with not more than five members from either Chamber belonging to the same political party.

The law further provided that the Joint Committee "shall select a chairman and a vice chairman from among its members." Historically, the chairman was a Member of one House of Congress and the vice chairman a Member of the other. Until the 83d Congress the chairman was a Member of the Senate. After the convening of the 83d Congress in 1953, Congressman Sterling Cole of New York, former vice chairman of the committee and a member since the 80th Congress, was elected chairman. Senator Bourke B. Hickenlooper of Iowa was elected vice chairman.

The Atomic Energy Act of 1954 (Public Law 83-703), which superseded the 1946 act, clarified the rotation of the chairmanship by specifically providing that—

The chairmanship shall alternate between the Senate and the House of Representatives with each Congress, and the chairman shall be selected by the members from the House entitled to the chairmanship. The vice chairman shall be chosen from the House other than that of the chairman by Members of that House.

The Joint Committee is unique in that it is the only joint committee of Congress authorized to receive and recommend to the Congress proposed legislation. It is one of the few committees established by statute, rather than by rule of each House. Much of its work is conducted in executive session in compliance with the security requirements of the Atomic Energy Act, although in recent years a majority of its hearings have been held in public.

The Joint Committee was established as an agent of the Congress and the American people, and is charged with the responsibility of making "continuing studies of the activities of the Atomic Energy Commission and of problems relating to the development, use, and control of atomic energy." The functions and responsibilities of the Joint Committee include:

First, the legislative function, which covers all phases from the initiation of a legislative measure through committee consideration and debate on the floors of the House and Senate. All bills, resolutions, and other matters in the Senate or the House of Representatives relating primarily to the Atomic Energy Commission or to the development, use, or control of atomic energy are required by law to be referred to the Joint Committee for its consideration. The legislative function continues to be of great importance, as greater emphasis

is devoted to the peaceful uses of atomic energy. Until the enactment of the Atomic Energy Act of 1954, there had been relatively little legislative action by the Joint Committee. Since the passage of the Atomic Energy Act of 1954, the Joint Committee has considered and recommended several amendments to the act each year in order to keep it up to date in a fast-moving field. Identical bills are usually reported to each House simultaneously, as are identical reports containing the Joint Committee's recommendations with respect to matters within its jurisdiction. Another legislative function of the Joint Committee consists of the action of the committee's Senate section in conducting hearings and reporting on confirmation of certain Presidential appointees.

Second is the "watchdog" function, which is a necessary part of the operation of a government of separated powers and a vital legislative responsibility. This function was of prime importance when the AEC was first established and most activities were of a secret nature. The Joint Committee maintains a close surveillance of the various aspects of the atomic energy program and the work of the AEC and the Defense Department with a view to insuring that adequate progress is being made, and that public funds appropriated for the program are being expended wisely and efficiently. The AEC is required by law to keep the Joint Committee fully and currently informed with respect to all of the Commission's activities. The Department of Defense is required to keep the committee fully and currently informed with respect to all matters within the Department relating to the development, utilization, or application of atomic energy. All other Government agencies are required to furnish any information requested by the committee with respect to the activities or responsibilities of those agencies in the field of atomic energy. In accordance with the latter requirement the Joint Committee receives briefings from other agencies and departments of the Government, including the Department of State and the Central Intelligence Agency.

Third is the policy and review function, by which the Joint Committee, or individual members, propose policy changes or innovations in the atomic energy program. For example, the Joint Committee has expedited and supported the naval nuclear propulsion program, the hydrogen bomb project, an expanded atomic power program, the preservation of food through irradiation, and the utilization of atomic energy for space applications.

Fourth is the information function, which imposes on the Joint Committee specific responsibility for providing information to the Congress and to the public in this important new scientific field. The Joint Committee is required to meet continuing requests for information as to its activities. Press releases announcing Joint Committee hearings and giving information on matters of concern to the public in the field of atomic energy are issued from time to time during each Congress. The Joint Committee generally holds public hearings during each session of Congress on subjects which are important to the atomic energy program. Published hearings, reports, committee prints, and other materials published for distribution are automatically made available to the public in accordance with the general procedures of the Congress. Many specific requests from interested individuals and organizations are answered daily by the

committee staff. Requests from members of the press, radio, and television corps are handled as expeditiously as possible.

Materials on various aspects of the atomic energy program are forwarded to Members of Congress, libraries, students, interested individuals, and industrial, religious, and private organizations upon request. Members and staff of the Joint Committee also provide assistance in connection with educational activities by identifying sources of information available through the Atomic Energy Commission and other Government agencies. In addition, articles are prepared and talks delivered before interested groups dealing with the various uses of atomic energy.

SPECIAL STATUTORY DUTIES OF THE JOINT COMMITTEE

Authorizing legislation.—A 1963 amendment of section 261 of the Atomic Energy Act of 1954 requires prior congressional authorization of all appropriations for the AEC, including both construction and operating funds. This amendment was enacted in order to further insure adequate congressional control over the atomic energy program. Under section 261, Congress' specialized arm—the Joint Committee on Atomic Energy—reviews and recommends authorization for the AEC's entire budget, thereby permitting the Joint Committee to deal effectively with the critical problems in the atomic energy field.

The requirement for authorizing legislation has proven of value in many ways. The Joint Committee receives testimony in both executive and open hearings. The hearings give a meaningful story of the Commission's program needs, and furnish needed information to Members of Congress in their consideration of the appropriation bills.

Agreements for cooperation.—Section 11 b. of the act defines "agreement for cooperation" as "any agreement with another nation or regional defense organization, authorized or permitted by section 54, 57, 64, 82, 91 c., 103, 104, or 144, and made pursuant to section 123." The agreements may cover cooperation with other nations in both the military and civilian applications of atomic energy.

The authorized agreements are subject to procedural checks set forth in section 123. With respect to agreements for cooperation concerning the civil uses of atomic energy, section 123 provides that no such agreement may become effective until the proposed agreement for cooperation, together with the approval of the President and his written determination that performance of the agreement will promote and will not constitute an unreasonable risk to the common defense and security, has been submitted to the Joint Committee and a period of 30 days has elapsed while Congress is in session. The section further provides, however, that the Joint Committee "may by resolution in writing waive the conditions of all or any portion of such thirty-day period."

The Atomic Energy Act of 1954 was amended in 1958 (Public Law 85-479) to permit, subject to certain conditions, limitations, and procedures, greater exchange with military allies of specifically defined types of military information and materials. In accordance with section 123 d. of the act, such agreements for cooperation on uses of atomic energy for mutual defense purposes, together with the approval

and determination of the President, must be submitted to the Congress and referred to the Joint Committee on Atomic Energy where they must lie for a period of 60 days while Congress is in session before becoming effective. However, a proviso to section 123 d. provides that any such proposed agreement for cooperation shall not become effective if during such 60-day period the Congress passes a concurrent resolution stating in substance that it does not favor the proposed agreement for cooperation.

Review of AEC determinations.—Section 51 of the Atomic Energy Act of 1954 authorizes the Atomic Energy Commission to determine materials, other than those specifically defined under the act, to be special nuclear materials. The Commission's determination, together with the President's assent, must be submitted to the Joint Committee and a period of 30 days elapse while Congress is in session before that determination becomes effective.

Similarly, in section 61, the Commission is authorized to determine materials, other than those specifically defined under the act, to be source materials (from which special nuclear materials are derived). As under section 51, the Joint Committee is required to be notified and a 30-day period must elapse before such determination can become effective.

Similar provisions are contained in section 164, which deals with the Commission's authority to enter into new contracts or modify or confirm existing contracts for long-term electric utility services.

Under the provisions of section 58 of the act, before the Commission may establish any "guaranteed purchase price" or "guaranteed purchase price period" for licensee-produced plutonium or U²³³, and before the Commission may establish any criteria for the waiver of use charges for special nuclear material, such price, period or criteria must be submitted to the Joint Committee and a period of 45 days must elapse while Congress is in session.

Pursuant to section 161 v., which was added to the act in 1964, the Commission is authorized to contract with licensees and foreign governments to produce or enrich special nuclear material in Commission-owned facilities. Under this amendment the Commission is required to establish criteria for the performance of these services, and is further required to submit the criteria, and any proposed revisions and amendments to criteria previously established, to the Joint Committee for a period of 45 days unless the committee, by resolution in writing, waives the conditions of, or all or any portion of, such 45-day period.

Similarly, before the Commission enters into any arrangement or an amendment to an arrangement under the cooperative power reactor demonstration program which has not been previously approved as part of the AEC authorizing legislation, such arrangement or amendment must be submitted to the Joint Committee and a period of 45 days must elapse while Congress is in session.

This type of submission is also required for disposal of Government property at Richland, Wash., under the authority of a 1964 amendment of the Atomic Energy Community Act of 1955.

When a matter has been submitted to the Joint Committee for review as required by the statute, the committee, as a general rule, promptly schedules a hearing to consider the matter. On many occasions, in order to expedite matters, the committee has adopted a resolution waiving the waiting period, as authorized by the act.

JOINT COMMITTEE OPERATIONS

The operations of the Joint Committee are conducted through meetings and hearings of the committee and its designated subcommittees. Most sessions on executive business of the Joint Committee and hearings on a number of matters of primary importance are held by the full committee with the chairman presiding. The annual hearings on AEC's authorization bills are handled in this manner. All legislation and Joint Committee reports are considered and approved by the full committee.

To assist it in the discharge of its statutory duties, the Joint Committee has established seven subcommittees charged with the responsibility of conducting detailed studies of the problems and progress in major areas of the atomic energy program, and of reporting their findings and recommendations to the full committee. The Joint Committee is kept fully apprised of the work of its subcommittees, and all members are invited and urged to take part in subcommittee meetings.

The Subcommittee on Research, Development, and Radiation was established in 1961 to consolidate the duties of the former Subcommittee on Research and Development (established in 1954)¹ and the Special Subcommittee on Radiation (established in 1957). It conducts studies and hearings with regard to programs in the fields of physical research, research in biology and medicine, research in reactor development, and research in agriculture. It is within the framework of these fields of research that the development of atomic energy will be advanced to the benefit of mankind in nearly every walk of life—on the farm, in the factories, in medicine, and in the production of atomic power for commercial uses, all pointing toward a better standard of living for us here at home and for our friends abroad. Additionally, the subcommittee conducts studies and hearings on radiation problems in general.

The Subcommittee on Legislation was established in 1955. This subcommittee holds hearings on the legislative proposals, other than the annual authorization bills on which hearings are held before the full committee, initiated by or referred to the committee during each session of the Congress. The findings of the subcommittee take the form of recommendations to the full committee which, in turn, has final responsibility for reporting legislation to the Congress.

The Subcommittee on Agreements for Cooperation was established during 1955 to facilitate the Joint Committee's execution of its responsibility under section 123 c. of the Atomic Energy Act. The subcommittee normally conducts hearings, either in executive or public sessions, on all agreements for cooperation submitted to the Joint Committee in accordance with section 123 c. and those submitted to the Congress and referred to the Joint Committee pursuant to section 123 d. Activities of the subcommittee with respect to agreements for cooperation for mutual defense purposes are more fully discussed earlier in this section.

The Subcommittee on Communities was established in 1955 to review proposals, receive testimony, and make recommendations with respect to the establishment of local self-government at communities owned by the Atomic Energy Commission. In addition it has reviewed

¹ The Subcommittee on Reactor Development, established in 1950, was enlarged and redesignated as the Subcommittee on Research and Development in January 1954.

and recommended legislation providing for the sale of federally owned properties at such communities. The recommendations of the subcommittee were incorporated into S. 2630 (H.R. 7576) which was enacted into law on August 4, 1955, and is cited as the Atomic Energy Community Act of 1955 (Public Law 221, 84th Cong.).

Pursuant to this legislation, the communities of Oak Ridge, Tenn., and Richland, Wash., have become incorporated, self-governing municipalities with full responsibility for all municipal functions. Legislation enacted in 1962 will permit the same opportunity for private ownership at Los Alamos, N. Mex.

The Subcommittee on Military Applications, established in 1953, is responsible for reporting on all phases of the Atomic Energy Commission's program as it relates to the military requirements for special nuclear materials and for the application of atomic energy in the interest of national defense and security.

While very little public reporting of activities in the weapons field has been permissible under security regulations, direct and thorough investigation of the many facets of the weapons program is conducted in executive sessions.

The Subcommittee on Security was established in 1953. This subcommittee reviews the Atomic Energy Commission's security program as to its effectiveness in serving its dual purpose of promoting the common defense and security and advancing peacetime uses of atomic energy.

The subcommittee has studied all aspects of security. It has given continuous attention to the policies and procedures of the Commission and other Government agencies with respect to problems of security and intelligence in the atomic energy field. As recommended by the subcommittee, the Joint Committee has followed a policy of seeking continuous reduction of the area of security classification in order to attain improved security in a smaller area where a demonstrable national interest makes security safeguards necessary.

The Subcommittee on Raw Materials was established in 1951 and is charged with the study of problems connected with the long-range programs of exploration for and procurement and processing of raw materials, principally uranium. The subcommittee initiated studies which led directly to the establishment of adequate AEC procurement goals for raw materials and the development of domestic uranium resources. The subcommittee continues to consider carefully the problems of assuring that our uranium and thorium supplies will be adequate to support the growing civilian atomic energy industry.

In addition to the foregoing an *ad hoc subcommittee* composed of the ranking majority and minority committee members from each House has responsibility for confirming the appointment of persons proposed for professional employment on the committee staff.

REPORTING REQUIREMENTS

The Atomic Energy Act stipulates that the Atomic Energy Commission shall keep the Joint Committee "fully and currently informed" of all activities of the Commission. In accordance with this provision, the AEC submits a semiannual progress report to the Joint Committee. These reports are classified and cover the problems and progress being made in the overall aspects of the atomic energy program. In addition, numerous other reports on individual projects

and studies are presented to the Joint Committee. This reporting may take the form of classified or unclassified documents, public information releases, or correspondence. Close daily liaison is maintained between the staffs of the Commission and the Joint Committee.

The Commission is also required to report directly to the Congress. Section 251 of the act requires that the Commission—

submit to the Congress, in January of each year, a report concerning the activities of the Commission. The Commission shall include in such report, and shall at such other times as it deems desirable submit to the Congress, such recommendations for additional legislation as the Commission deems necessary or desirable.

All material contained in the Commission's annual reports to the Congress is of an unclassified nature.

As noted above, the Atomic Energy Act also requires the Department of Defense to keep the Joint Committee "fully and currently informed" of its activities in the atomic energy field; and all other agencies and departments of the Federal Government are required to comply with any request of the Joint Committee for information and records on matters affecting the atomic energy program.

CLASSIFICATION AND SECURITY

Conformance with necessary security regulations has necessitated certain precautionary measures by the Joint Committee. Section 11 y. of the Atomic Energy Act of 1954 defines "Restricted Data" as all data concerning—

(1) design, manufacture, or utilization of atomic weapons; (2) the production of special nuclear material; or (3) the use of special nuclear material in the production of energy, but shall not include data declassified or removed from the Restricted Data category pursuant to section 142.

The members of the Joint Committee have adhered strictly to the practice of recognizing the classification assigned to materials forwarded to them from the Commission, and maintaining that classification until such time as it is downgraded or declassified by the Commission. They have carefully observed all security regulations with regard to restricted data. Speeches, articles, and reports are often reviewed for security reasons by the classification experts at the Commission at the request of the individual member.

In addition to classified progress reports which the Atomic Energy Commission submits at regular intervals, the Joint Committee receives and itself originates many classified documents and reports on all phases of the program. It classifies information originating within the Joint Committee in accordance with standards used by the executive branch for classifying restricted data or defense information.

The Joint Committee maintains close liaison with the Department of Defense, the Central Intelligence Agency, the Federal Bureau of Investigation, the Departments of State and Justice, and the National Security Council.

The committee's classified documents, reports, memorandums, and correspondence are maintained in the committee's classified files under an elaborate and carefully supervised security system. Every effort is made, through appropriate use of vaults, safes, soundproofing, electronic devices, exclusion area, FBI investigation of staff personnel, and the maintenance of an armed guard over the committee offices, to uphold standards of security vigilance at least as high as those of the executive branch.

OTHER COMMITTEE RESPONSIBILITIES AND ACTIVITIES

Under the provisions of the Atomic Energy Act, the Joint Committee is empowered to appoint a staff and employ such experts, consultants, technicians, and other personnel as may be required to assist it in the discharge of its statutory responsibilities. The Joint Committee is also empowered by law to utilize the services, information, facilities, and personnel of the departments and establishments of the Government in the discharge of committee duties.

The obligation on the Atomic Energy Commission and the Defense Department to keep the Joint Committee fully and currently informed helps assure a continuing flow of information necessary to the proper discharge of committee responsibilities. In addition to this type of information, however, the members of the Joint Committee and of the staff make frequent visits to laboratories, operating sites, and other atomic energy installations in the United States and abroad. Staff members check directly on many items reported by AEC and other agencies in order to obtain clarification or additional information. The Joint Committee also initiates special investigations and studies on its own.

In view of the increasing international aspects of atomic energy, members and staff of the Joint Committee have participated as official congressional advisers and observers to U.S. delegations at various international conferences, including the Geneva Conferences on the Peaceful Uses of Atomic Energy in 1955, 1958, and 1964, and the General Conferences of the International Atomic Energy Agency in 1957-61 and 1963-68. In addition, members and staff have made a number of tours of foreign atomic energy installations.

The committee staff consists of approximately 20 employees, under the direction of an executive director. Due to the diverse subject matter encountered in the field of atomic energy and the highly technical nature of the problems, the staff does not adhere to a rigidly functional breakdown within its organization. Professional staff members are called upon daily to work with a wide variety of problems covering the entire atomic energy program, including production of fissionable materials, research and development, reactor development, weapons, and community activities. The staff's responsibility covers financial, administrative, technical, and legal aspects of these subjects. In addition the staff serves the committee members on individual assignments as requested.

III. SERVICE OF CURRENT MEMBERSHIP OF THE JOINT COMMITTEE

SENATE MEMBERS (IN ALPHABETICAL ORDER)

AIKEN, GEORGE D., Vermont:
Appointed, January 29, 1959.
Subcommittee membership:
Communities, 1959-70.
Military Applications, 1956-62.
Legislation, 1963-70.
Special Subcommittee on Radiation, 1959-60.
Research, Development, and Radiation, 1961-70.

ANDERSON, CLINTON P., New Mexico:
Appointed, January 18, 1961.
Chairman, 84th Congress (1955-56), 86th Congress (1959-60).
Vice chairman, 85th Congress (1957-58).
Subcommittee membership:
Raw Materials, 1961-70.
Chairman, 1961-62.
Military Applications, 1955-70.
Agreements for Cooperation, 1955-70.
Security, 1961-70.
Chairman, 1961-70.
Special Subcommittee on Radiation, ex officio member, 1957-60.

BENNETT, WALLACE F., Utah:
Appointed, January 29, 1959.
Subcommittee membership:
Agreements for Cooperation, 1959-70.
Raw Materials, 1959-68.
Research, Development, and Radiation, 1969-70.
Security, 1959-68.

COTTON, NORRIS, New Hampshire:
Appointed January 23, 1969.
Subcommittee membership:
Agreements for Cooperation, 1969-70.
Legislation, 1969-70.
Raw Materials, 1969-70.

CURTIS, CARL T., Nebraska:
Appointed, February 11, 1963.
Subcommittee membership:
Military Applications, 1963-70.
Raw Materials, 1963-70.
Security, 1969-70.

GORE, ALBERT, Tennessee:
Appointed, November 8, 1954.
Subcommittee membership:
Raw Materials, 1955-60.
Chairman, 1955-60.
Communities, 1955-60.
Research, Development, and Radiation and its predecessor (Research and Development), 1955-70.
Legislation, 1955-70.
Agreements for Cooperation, 1961-70.
Chairman, 1961-70.

JACKSON, HENRY M., Washington:
House membership:
Appointed, January 27, 1949.
Member of Subcommittee on Reactor Development, 1950-52.¹
Elected to U.S. Senate, November 1952.
Senate membership:
Appointed, January 14, 1955.
Subcommittee membership:
Security, 1955-70.
Communities, 1955-70.
Military Applications, 1955-70.
Chairman, 1955-70.
Legislation, 1961-70.
Research, Development, and Radiation, 1961-70.
Special Subcommittee on Radiation, 1959-60.

PASTORE, JOHN O., Rhode Island:
Appointed, August 8, 1952, to fill vacancy caused by death of Senator Brien McMahon and served through 1952. With the election of a Republican Congress in 1952, Senate Democratic membership was reduced from five to four.
Reappointed, June 3, 1953.
Chairman, 88th Congress (1963-64), 90th Congress (1967-68).
Vice chairman, 87th Congress (1961-62), 89th Congress (1965-66), 91st Congress (1969-70).
Subcommittee membership:
Research, Development, and Radiation and its predecessor (Research and Development), 1954-70.
Agreements for Cooperation, 1955-60.
Chairman, 1955-60.
Security, 1953-70.
Military Applications, 1953-70.
Legislation, 1961-70.
Chairman, 1961-62, 1965-66, 1969-70.
Special Subcommittee on Radiation, 1957-60.

RUSSELL, RICHARD B., Georgia:
Appointed, August 2, 1946.²

¹ The Subcommittee on Reactor Development was established in 1950. In January 1954 the subcommittee was enlarged and redesignated as the Subcommittee on Research and Development. In 1961 the Subcommittee on Research and Development was consolidated with the Special Subcommittee on Radiation and redesignated the Subcommittee on Research, Development, and Radiation.

² Senator Russell was a member of the Senate Special Committee on Atomic Energy which considered the original proposed atomic energy legislation, enacted as the Atomic Energy Act of 1946, 1945-46.

HOUSE MEMBERS (IN ALPHABETICAL ORDER)

ANDERSON, JOHN B., Illinois:
Appointed January 31, 1963.
Subcommittee membership:
Communities, 1963-64.
Legislation, 1963-70.
Research, Development, and Radiation, 1963-70.
Agreements for Cooperation, 1965-69.
Military Applications, 1969-70.

ASPINALL, WAYNE N., Colorado:
Appointed March 17, 1958.
Subcommittee membership:
Communities, 1958-60.
Chairman, 1958-60.
Raw Materials, 1958-70.
Chairman, 1961-70.
Security, 1958-60.
Legislation, 1959-70.

EDMONDSON, ED, Oklahoma:
Appointed February 3, 1969.
Subcommittee membership:
Communities, 1969-70.
Raw Materials, 1969-70.

HOLIFIELD, CLET, California:
Appointed August 2, 1946.³
Chairman, 87th Congress (1961-62), 89th Congress (1965-66), 91st Congress (1969-70).
Vice chairman, 88th Congress (1963-64), 90th Congress (1967-68).
Subcommittee membership:
Raw Materials, 1955-70.
Security, 1953-54.
Legislation, 1955-70.
Chairman, 1955-60, 1963-64, 1967-68.
Agreements for Cooperation, 1961-70.
Research, Development, and Radiation, 1961-70.
Special Subcommittee on Radiation, 1957-60.
Chairman, 1957-60.
Military Applications, 1955-70.

HOSMER, CRAIG, California:
Appointed January 18, 1958.
Subcommittee membership:
Communities, 1958.
Raw Materials, 1958.
Research, Development, and Radiation and its predecessor (Research and Development), 1958-70.
Special Subcommittee on Radiation, 1958-60.
Military Applications, 1961, 1963-70.
Legislation, 1962-70.

MAY, CATHERINE, Washington:
Appointed July 24, 1969.
Subcommittee membership:
Agreements for Cooperation, 1969-70.
Security, 1969-70.

MCCULLOCH, WILLIAM M., Ohio:
Appointed February 4, 1965.
Subcommittee membership:
Communities, 1965-70.
Raw Materials, 1965-70.
Security, 1965-70.

PRICE, MELVIN, Illinois:
Appointed August 2, 1946.⁴
Subcommittee membership:
Research, Development, and Radiation and its predecessor subcommittees, Reactor Development (1950-53), Research and Development (1954-60), and Special Subcommittee on Radiation (1957-60), 1960-70.
Chairman, 1955-70.
Agreements for Cooperation, 1955-70.

YOUNG, JOHN, Texas:
Appointed March 1, 1966.
Subcommittee membership:
Communities, 1966-70.
Chairman, 1969-70.
Raw Materials, 1966-70.
Security, 1966-70.

³ Mr. Holifield was a member of the House Military Affairs Committee which considered the original proposed atomic energy legislation, enacted as the Atomic Energy Act of 1946, 1945-46.
⁴ Mr. Price was a member of the House Military Affairs Committee which considered the original proposed atomic energy legislation, enacted as the Atomic Energy Act of 1946, 1945-46.

IV. MEMBERSHIP OF THE JOINT COMMITTEE, 1945-69

SENATE SPECIAL COMMITTEE ON ATOMIC ENERGY

SEVENTY-NINTH CONGRESS (1945-46)

BRIEN McMAHON, Connecticut, *Chairman*

RICHARD B. RUSSELL, Georgia	ARTHUR H. VANDENBERG, Michigan
EDWIN C. JOHNSON, Colorado	WARREN R. AUSTIN, Vermont
TOM CONNALLY, Texas	EUGENE D. MILLIKIN, Colorado
HARRY FLOOD BYRD, Virginia	BOURKE B. HICKENLOOPER, Iowa
MILLARD E. TYDINGS, Maryland	THOMAS C. HART, Connecticut

HOUSE COMMITTEE ON MILITARY AFFAIRS

SEVENTY-NINTH CONGRESS (1945-46)

ANDREW J. MAY, Kentucky, *Chairman*

R. EWING THOMASON, Texas	WALTER G. ANDREWS, New York
OVERTON BROOKS, Louisiana	DEWEY SHORT, Missouri
JOHN J. SPARKMAN, Alabama	LESLIE C. ARENDS, Illinois
PAUL J. KILDAY, Texas	CHARLES E. CLASON, Massachusetts
CARL T. DURHAM, North Carolina	J. PARNELL THOMAS, New Jersey
JOHN EDWARD SHERIDAN, Pennsylvania	PAUL W. SIAFER, Michigan
ROBERT L. F. SIKES, Florida	THOMAS E. MARTIN, Iowa
PHILIP J. PHILBIN, Massachusetts	CHARLES H. ELSTON, Ohio
PAUL STEWART, Oklahoma	FOREST A. HARNESS, Indiana
ARTHUR WINSTEAD, Mississippi	IVOR D. FENTON, Pennsylvania
CHET HOLIFIELD, California	J. LEROY JOHNSON, California
JAMES A. ROE, New York	CLARE BOOTHE LUCE, Connecticut
MELVIN PRICE, Illinois	
J. LINDSAY ALMOND, Virginia	JOSEPH R. FARRINGTON, Hawaii
	E. L. BARTLETT, Alaska
	JESUS PIÑERO, Puerto Rico

JOINT COMMITTEE ON ATOMIC ENERGY

SEVENTY-NINTH CONGRESS (1946)

BRIEN McMAHON, Connecticut, *Chairman*

R. EWING THOMASON, Texas, *Vice Chairman*

RICHARD B. RUSSELL, Georgia	CARL T. DURHAM, North Carolina
EDWIN C. JOHNSON, Colorado	AIME FORAND, Rhode Island
TOM CONNALLY, Texas	CHET HOLIFIELD, California
HARRY FLOOD BYRD, Virginia	MELVIN PRICE, Illinois
ARTHUR VANDENBERG, Michigan	CHARLES H. ELSTON, Ohio
EUGENE D. MILLIKIN, Colorado	J. PARNELL THOMAS, New Jersey
BOURKE B. HICKENLOOPER, Iowa	CARL HINSHAW, California
WILLIAM F. KNOWLAND, California	CLARE BOOTHE LUCE, Connecticut

NOTE.—The Atomic Energy Act of 1946 was approved August 1, 1946. The Members were appointed on August 2, 1946, met and organized, but transacted no other business during the 79th Congress.

EIGHTIETH CONGRESS (1947-48)

BOURKE B. HICKENLOOPER, Iowa, *Chairman*
W. STERLING COLE, New York, *Vice Chairman*

ARTHUR H. VANDENBERG, Michigan	CHARLES H. ELSTON, Ohio
EUGENE D. MILLIKIN, Colorado	CARL HINSHAW, California
WILLIAM F. KNOWLAND, California	JAMES E. VAN ZANDT, Pennsylvania
JOHN W. BRICKER, Ohio	JAMES T. PATTERSON, Connecticut
BRIEN McMAHON, Connecticut	CARL T. DURHAM, North Carolina
RICHARD B. RUSSELL, Georgia	CHET HOLIFIELD, California
EDWIN C. JOHNSON, Colorado	MELVIN PRICE, Illinois
TOM CONNALLY, Texas	LYNDON B. JOHNSON, Texas

NOTE.—Lyndon B. Johnson was appointed Nov. 17, 1947, to fill vacancy created by the resignation from Congress of R. Ewing Thomason, on July 22, 1947. Lyndon B. Johnson was elected to U.S. Senate for term commencing Jan. 3, 1949.

EIGHTY-FIRST CONGRESS (1949-50)

BRIEN McMAHON, Connecticut, *Chairman*
CARL T. DURHAM, North Carolina, *Vice Chairman*

RICHARD B. RUSSELL, Georgia	CHET HOLIFIELD, California
EDWIN C. JOHNSON, Colorado	MELVIN PRICE, Illinois
TOM CONNALLY, Texas	PAUL J. KILDAY, Texas
MILLARD E. TYDINGS, Maryland	HENRY M. JACKSON, Washington
BOURKE B. HICKENLOOPER, Iowa	W. STERLING COLE, New York
EUGENE D. MILLIKIN, Colorado	CHARLES H. ELSTON, Ohio
WILLIAM F. KNOWLAND, California	CARL HINSHAW, California
JOHN W. BRICKER, Ohio	JAMES E. VAN ZANDT, Pennsylvania

NOTE.—John W. Bricker was appointed on Jan. 26, 1950, to fill vacancy created by the resignation of Arthur H. Vandenberg, on Jan. 26, 1950, as a member of the Joint Committee.

EIGHTY-SECOND CONGRESS (1951-52)

BRIEN McMAHON, Connecticut, *Chairman*
CARL T. DURHAM, North Carolina, *Vice Chairman*

RICHARD B. RUSSELL, Georgia	CHET HOLIFIELD, California
EDWIN C. JOHNSON, Colorado	MELVIN PRICE, Illinois
LYNDON B. JOHNSON, Texas	PAUL J. KILDAY, Texas
CLINTON P. ANDERSON, New Mexico	HENRY M. JACKSON, Washington
BOURKE B. HICKENLOOPER, Iowa	W. STERLING COLE, New York
EUGENE D. MILLIKIN, Colorado	CHARLES H. ELSTON, Ohio
WILLIAM F. KNOWLAND, California	CARL HINSHAW, California
JOHN W. BRICKER, Ohio	JAMES E. VAN ZANDT, Pennsylvania

NOTE.—Tom Connally resigned from the Joint Committee effective July 5, 1952. Lyndon B. Johnson, of Texas, was appointed a member of the committee the same day. Carl T. Durham was chairman from Aug. 4, 1952. John O. Pastore was appointed Aug. 8, 1952, to fill the vacancy created by the death of Brien McMahon on July 28, 1952. Henry M. Jackson was elected to U.S. Senate for term commencing Jan. 3, 1953.

EIGHTY-THIRD CONGRESS (1953-54)

W. STERLING COLE, New York, *Chairman*
BOURKE B. HICKENLOOPER, Iowa, *Vice Chairman*

CARL HINSHAW, California	EUGENE D. MILLIKIN, Colorado
JAMES E. VAN ZANDT, Pennsylvania	WILLIAM F. KNOWLAND, California
JAMES T. PATTERSON, Connecticut	JOHN W. BRICKER, Ohio
THOMAS A. JENKINS, Ohio	GUY R. CORDON, Oregon
CARL T. DURHAM, North Carolina	RICHARD B. RUSSELL, Georgia
CHET HOLIFIELD, California	CLINTON P. ANDERSON, New Mexico
MELVIN PRICE, Illinois	JOHN O. PASTORE, Rhode Island
PAUL J. KILDAY, Texas	ALBERT GORE, Tennessee

NOTE.—John O. Pastore was appointed on June 3, 1953, to fill vacancy created by resignation of Lyndon B. Johnson as member of the Joint Committee. Edwin C. Johnson resigned as a member of the committee effective Nov. 8, 1954. Albert Gore was appointed the same date.

EIGHTY-FOURTH CONGRESS (1955-56)

CLINTON P. ANDERSON, New Mexico, *Chairman*
CARL T. DURHAM, North Carolina, *Vice Chairman*

RICHARD B. RUSSELL, Georgia	CHET HOLIFIELD, California
JOHN O. PASTORE, Rhode Island	MELVIN PRICE, Illinois
ALBERT GORE, Tennessee	PAUL J. KILDAY, Texas
HENRY M. JACKSON, Washington	JOHN J. DEMPSEY, New Mexico
BOURKE B. HICKENLOOPER, Iowa	STERLING COLE, New York
EUGENE D. MILLIKIN, Colorado	CARL HINSHAW, California ¹
WILLIAM F. KNOWLAND, California	JAMES E. VAN ZANDT, Pennsylvania
JOHN W. BRICKER, Ohio	JAMES T. PATTERSON, Connecticut

¹Deceased Aug. 5, 1957.

EIGHTY-FIFTH CONGRESS (1957-58)

CARL T. DURHAM, North Carolina, *Chairman*
CLINTON P. ANDERSON, New Mexico, *Vice Chairman*

CHET HOLIFIELD, California	RICHARD B. RUSSELL, Georgia
MELVIN PRICE, Illinois	JOHN O. PASTORE, Rhode Island
PAUL J. KILDAY, Texas	ALBERT GORE, Tennessee
WAYNE N. ASPINALL, Colorado	HENRY M. JACKSON, Washington
JAMES E. VAN ZANDT, Pennsylvania	BOURKE B. HICKENLOOPER, Iowa
JAMES T. PATTERSON, Connecticut	WILLIAM F. KNOWLAND, California
THOMAS A. JENKINS, Ohio	JOHN W. BRICKER, Ohio
CRAIG HOSMER, California	HENRY DWORSHAK, Idaho

NOTE.—Craig Hosmer was appointed Jan. 15, 1958, to fill vacancy created by resignation of Sterling Cole on Dec. 1, 1957, as a Member of Congress to accept position as Director General of the International Atomic Energy Agency. Wayne N. Aspinall was appointed Mar. 17, 1958, to fill vacancy created by the death of John J. Dempsey, on Mar. 11, 1958.

EIGHTY-SIXTH CONGRESS (1959-60)

CLINTON P. ANDERSON, New Mexico, *Chairman*
CARL T. DURHAM, North Carolina, *Vice Chairman*

RICHARD B. RUSSELL, Georgia	CHET HOLIFIELD, California
JOHN O. PASTORE, Rhode Island	MELVIN PRICE, Illinois
ALBERT GORE, Tennessee	WAYNE N. ASPINALL, Colorado
HENRY M. JACKSON, Washington	ALBERT THOMAS, Texas
BOURKE B. HICKENLOOPER, Iowa	JAMES E. VAN ZANDT, Pennsylvania
HENRY DWORSHAK, Idaho	CRAIG HOSMER, California
GEORGE D. AIKEN, Vermont	WILLIAM H. BATES, Massachusetts
WALLACE F. BENNETT, Utah	JACK WESTLAND, Washington

NOTE.—Albert Thomas was appointed to the Committee Feb. 16, 1959, to fill the vacancy created by the resignation, dated Jan. 21, 1959, of Paul J. Kilday.

EIGHTY-SEVENTH CONGRESS (1961-62)

CHET HOLIFIELD, California, *Chairman*
JOHN O. PASTORE, Rhode Island, *Vice Chairman*

MELVIN PRICE, Illinois	RICHARD B. RUSSELL, Georgia
WAYNE N. ASPINALL, Colorado	CLINTON P. ANDERSON, New Mexico
ALBERT THOMAS, Texas	ALBERT GORE, Tennessee
THOMAS G. MORRIS, New Mexico	HENRY M. JACKSON, Washington
JAMES E. VAN ZANDT, Pennsylvania	BOURKE B. HICKENLOOPER, Iowa
CRAIG HOSMER, California	HENRY DWORSHAK, Idaho ¹
WILLIAM H. BATES, Massachusetts	GEORGE D. AIKEN, Vermont
JACK WESTLAND, Washington	WALLACE F. BENNETT, Utah

¹Deceased July 23, 1962.

NOTE.—Everett McKinley Dirksen was appointed on July 31, 1962, to fill the vacancy created by the death of Henry Dworshak on July 28, 1962.

EIGHTY-EIGHTH CONGRESS (1963-64)

JOHN O. PASTORE, Rhode Island, *Chairman*
CHET HOLIFIELD, California, *Vice Chairman*

RICHARD B. RUSSELL, Georgia	MELVIN PRICE, Illinois
CLINTON P. ANDERSON, New Mexico	WAYNE N. ASPINALL, Colorado
ALBERT GORE, Tennessee	ALBERT THOMAS, Texas
HENRY M. JACKSON, Washington	THOMAS G. MORRIS, New Mexico
BOURKE B. HICKENLOOPER, Iowa	CRAIG HOSMER, California
GEORGE D. AIKEN, Vermont	WILLIAM H. BATES, Massachusetts
WALLACE F. BENNETT, Utah	JACK WESTLAND, Washington
CARL T. CURTIS, Nebraska	JOHN B. ANDERSON, Illinois

NOTE.—Carl T. Curtis was appointed on Feb. 11, 1963, to fill the vacancy created by the resignation of Everett McKinley Dirksen as a member of the Joint Committee on the same date.

EIGHTY-NINTH CONGRESS (1965-66)

CHET HOLIFIELD, California, *Chairman*
JOHN O. PASTORE, Rhode Island, *Vice Chairman*

MELVIN PRICE, Illinois	RICHARD B. RUSSELL, Georgia
WAYNE N. ASPINALL, Colorado	CLINTON P. ANDERSON, New Mexico
ALBERT THOMAS, Texas ¹	ALBERT GORE, Tennessee
THOMAS G. MORRIS, New Mexico	HENRY M. JACKSON, Washington
CRAIG HOSMER, California	BOURKE B. HICKENLOOPER, Iowa
WILLIAM H. BATES, Massachusetts	GEORGE D. AIKEN, Vermont
JOHN B. ANDERSON, Illinois	WALLACE F. BENNETT, Utah
WILLIAM M. McCULLOCH, Ohio	CARL T. CURTIS, Nebraska

¹ Deceased February 15, 1966.

NOTE.—John Young was appointed Mar. 1, 1966, to fill the vacancy created by the death of Albert Thomas on Feb. 15, 1966.

NINETIETH CONGRESS (1967-68)

JOHN O. PASTORE, Rhode Island, *Chairman*
CHET HOLIFIELD, California, *Vice Chairman*

RICHARD B. RUSSELL, Georgia	MELVIN PRICE, Illinois
CLINTON P. ANDERSON, New Mexico	WAYNE N. ASPINALL, Colorado
ALBERT GORE, Tennessee	THOMAS G. MORRIS, New Mexico
HENRY M. JACKSON, Washington	JOHN YOUNG, Texas
BOURKE B. HICKENLOOPER, Iowa	CRAIG HOSMER, California
GEORGE D. AIKEN, Vermont	WILLIAM H. BATES, Massachusetts
WALLACE F. BENNETT, Utah	JOHN B. ANDERSON, Illinois
CARL T. CURTIS, Nebraska	WILLIAM M. McCULLOCH, Ohio

NINETY-FIRST CONGRESS (1969-)

CHET HOLIFIELD, California, *Chairman*
JOHN O. PASTORE, Rhode Island, *Vice Chairman*

MELVIN PRICE, Illinois	RICHARD B. RUSSELL, Georgia
WAYNE N. ASPINALL, Colorado	CLINTON P. ANDERSON, New Mexico
JOHN YOUNG, Texas	ALBERT GORE, Tennessee
ED EDMONDSON, Oklahoma	HENRY M. JACKSON, Washington
CRAIG HOSMER, California	GEORGE D. AIKEN, Vermont
WILLIAM H. BATES, Massachusetts ¹	WALLACE F. BENNETT, Utah
JOHN B. ANDERSON, Illinois	CARL T. CURTIS, Nebraska
WILLIAM M. McCULLOCH, Ohio	NORRIS COTTON, New Hampshire

¹ Deceased June 22, 1969.

NOTE.—Norris Cotton was appointed Jan. 23, 1969, to fill the vacancy created by the retirement of Bourke B. Hickenlooper. Catherine May was appointed July 24, 1969, to fill the vacancy created by the death of William H. Bates.

V. MEMBERSHIP OF THE ATOMIC ENERGY COMMISSION 1946-69

[Dates of taking first oath of office]

1946	Lilienthal, Chm. Nov. 1, 1946	Bacher Nov. 1, 1946	Pike Oct. 31, 1946	Strauss Nov. 12, 1946	Waymack Nov. 5, 1946
1949		Smyth May 30, 1949			Dean May 24, 1949
1950	Murray May 9, 1950			Glennan Oct. 2, 1950	Dean, Chm. from Aug. 11, 1950
1952			Zuckert Feb. 26, 1952		
1953				Campbell July 27, 1953	Strauss, Chm. July 2, 1953
1954		Libby Oct. 5, 1954			
1955			Von Neumann Mar. 15, 1955	Vance Oct. 3, 1955	
1957	Floberg Oct. 1, 1957		Graham Sept. 12, 1957		
1958					McCone, Chm. July 14, 1958
1959		Williams Aug. 13, 1959			
1960	Olson June 23, 1960			Wilson Mar. 22, 1960	
1961		Haworth Apr. 17, 1961			Seaborg, Chm. Mar. 1, 1961
1962	Palfrey Aug. 31, 1962		Ramey Aug. 31, 1962		
1963		Tape July 15, 1963			
1964				Bunting June 29, 1964	
1966	Johnson Aug. 1, 1966			Nabrit Aug. 1, 1966	
1968			Costagliola Oct. 1, 1968	Seaborg ¹ July 1, 1968	Ramey ² July 18, 1968
1969		Thompson ³ June 12, 1969	Larson ⁴ Sept. 2, 1969		

¹ Upon the expiration of his 5-year term ending June 30, 1968, Glenn T. Seaborg was appointed to fill the remainder of the 5-year term ending June 30, 1970, which was vacated by S. M. Nabrit on Aug. 1, 1967.

² On July 18, 1968, James T. Ramey vacated the term ending June 30, 1969, and began the 5-year term ending June 30, 1973.

³ On June 12, 1969, Theos J. Thompson took the oath of office to fill the remainder of the term ending June 30, 1971, vacated by Gerald F. Tape on April 30, 1963.

⁴ On September 2, 1969, Clarence E. Larson took the oath of office to fill a 5-year term ending June 30, 1974.

Tenure of office of AEC Commissioners, 1946-69

	From--	To--	Remarks
David E. Lilienthal, Chairman.....	Nov. 1, 1946	Feb. 15, 1950	Resigned.
Robert F. Bacher.....	Nov. 1, 1946	May 10, 1949	Resigned.
Sumner T. Pike.....	Oct. 31, 1946	Dec. 15, 1961	Resigned.
William W. Waymack.....	Nov. 5, 1946	Dec. 21, 1948	Resigned.
Lewis L. Strauss.....	Nov. 12, 1946	Apr. 15, 1950	Resigned.
Chairman.....	July 2, 1953	June 30, 1958	Term expired.
Henry DeWolf Smyth.....	May 30, 1949	Sept. 30, 1954	Resigned.
Gordon Dean.....	May 24, 1949	June 30, 1953	Term expired.
Chairman.....	July 11, 1950	June 30, 1953	
Thomas E. Murray.....	May 9, 1950	June 30, 1957	Term expired.
Thomas Keith Glennan.....	Oct. 2, 1950	Nov. 1, 1962	Resigned.
Eugene M. Zuckert.....	Feb. 25, 1952	June 30, 1954	Term expired.
Joseph Campbell.....	July 27, 1953	Nov. 30, 1954	Resigned.
Willard F. Libby.....	Oct. 5, 1954	June 30, 1959	Resigned.
John Von Neumann.....	Mar. 15, 1955	Feb. 8, 1957	Deceased.
Harold S. Vance.....	Oct. 31, 1955	Aug. 31, 1959	Deceased.
John S. Graham.....	Sept. 12, 1957	June 30, 1962	Resigned.
John Forrest Fobberg.....	Oct. 1, 1957	June 23, 1960	Resigned.
John A. McCone, Chairman.....	July 14, 1958	Jan. 20, 1961	Resigned.
John H. Williams.....	Aug. 13, 1959	June 30, 1960	Resigned.
Robert E. Wilson.....	Mar. 22, 1960	Jan. 31, 1964	Resigned.
Loren K. Olson.....	June 23, 1960	June 30, 1962	Term expired.
Glenn T. Seaborg, Chairman.....	Mar. 1, 1961	June 30, 1970 ¹	
Leland J. Haworth.....	Apr. 17, 1961	June 30, 1963	Resigned.
John G. Palfrey.....	Aug. 31, 1962	June 30, 1966	Resigned.
James T. Ramsey.....	Aug. 31, 1962	June 30, 1973 ¹	
Gerald F. Tape.....	July 15, 1963	April 30, 1969	Resigned.
Mary I. Bunting.....	June 29, 1964	June 30, 1965	Term expired.
Wilfrid E. Johnson.....	Aug. 1, 1966	June 30, 1972 ¹	
Samuel M. Nabrit.....	Aug. 1, 1966	Aug. 1, 1967	Resigned.
Francesco Costagliola.....	Oct. 1, 1968	June 30, 1969	Term expired.
Theos J. Thompson.....	June 12, 1969	June 30, 1971 ¹	
Clarence E. Larson.....	Sept. 2, 1969	June 30, 1974 ¹	

¹ Date term expires.

VI. TENURE OF OFFICE OF AEC GENERAL MANAGERS AND JCAE EXECUTIVE DIRECTORS

ATOMIC ENERGY COMMISSION, GENERAL MANAGERS, 1946-69

General Manager	From	To
Carroll L. Wilson.....	Dec. 31, 1946.....	Aug. 15, 1950.
Marion W. Boyer.....	Nov. 1, 1950.....	Oct. 31, 1953.
Kenneth D. Nichols.....	Nov. 1, 1953.....	Apr. 30, 1955.
Kenneth E. Fields.....	May 1, 1955.....	June 30, 1958.
Paul F. Foster.....	July 1, 1958.....	Nov. 30, 1958.
A. R. Lueddecke.....	Dec. 1, 1958.....	July 31, 1964.
R. E. Hollingsworth.....	Aug. 11, 1964.....	Present.

JOINT COMMITTEE ON ATOMIC ENERGY, EXECUTIVE DIRECTORS, 1947-69

Executive Director ¹	From	To
Fred B. Rhodes, Jr.....	Feb. 13, 1947.....	Jan. 27, 1949.
William L. Borden.....	Jan. 28, 1949.....	Sept. 30, 1953.
Corbin A. Allardice.....	Oct. 1, 1953.....	Sept. 30, 1955.
James T. Ramey.....	Apr. 1, 1956.....	Aug. 30, 1962.
John T. Conway.....	Sept. 19, 1962.....	Oct. 31, 1968.
Edward J. Bauser.....	Nov. 1, 1968.....	Present.

¹ Christopher T. Boland was staff director of the Senate Special Committee on Atomic Energy, November 15, 1945, and served on the Joint Committee as staff director until January 9, 1947.

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VII. ATOMIC ENERGY LEGISLATIVE REFERENCES, 1946-69¹

(Publications that are followed by a price may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402)

- Public Law 585, 79th Congress (60 Stat. 755)—The Atomic Energy Act of 1946 Approved August 1, 1946. (Price, 10 cents.)
- Public Law 898, 80th Congress (62 Stat. 1259)—To provide for the extension of the terms of office of the present members of the Atomic Energy Commission. Approved July 3, 1948*
- Public Law 14, 81st Congress (63 Stat. 11)—To retrocede to the State of New Mexico exclusive jurisdiction held by the United States over lands within the boundaries of the Los Alamos Project of the United States Atomic Energy Commission. Approved March 4, 1949.
- Public Law 347, 81st Congress (63 Stat. 762)—To amend the Atomic Energy Act of 1946 (providing for changes in the Military Liaison Committee). Approved October 11, 1949.*
- Public Law 820, 81st Congress (64 Stat. 979)—To amend the Atomic Energy Act of 1946 (changing compensation to be received by members of the Atomic Energy Commission). Approved September 23, 1950.*
- Public Law 235, 82d Congress (65 Stat. 692)—To amend the Atomic Energy Act of 1946, as amended (relating to the control of atomic information). Approved October 30, 1951.*
- Public Law 298, 82d Congress (66 Stat. 44)—To provide for certain investigations by the Civil Service Commission in lieu of the Federal Bureau of Investigation, and for other purposes. Approved April 5, 1952.*
- Public Law 137, 83d Congress (67 Stat. 181)—To amend the Atomic Energy Act of 1946, as amended (providing for entering into long-term contracts for electric-utility services). Approved July 17, 1953.*
- Public Law 164, 83d Congress (67 Stat. 757)—To amend the Atomic Energy Act of 1946, as amended (relating to the control of information, FBI investigations, carrying of firearms, etc.). Approved July 31, 1953.*
- Public Law 262, 83d Congress (67 Stat. 575)—To amend section 9(b) of the Atomic Energy Act of 1946 (relating to the exemption of activities of the Atomic Energy Act from State and local taxation). Approved August 13, 1953.*
- Public Law 703, 83d Congress (68 Stat. 919)—Atomic Energy Act of 1954 (this act superseded the Atomic Energy Act of 1946). Approved August 30, 1954.*
- Public Law 31, 84th Congress (69 Stat. 47)—Authorizes the Atomic Energy Commission to construct a principal office building in or near the District of Columbia from funds now available or to be appropriated. Approved May 6, 1955.*
- Public Law 141, 84th Congress (69 Stat. 366)—To authorize appropriations for the AEC for the acquisition or condemnation of real property or any facility, or for plant or facility acquisition, construction, or expansion, and for other purposes. Approved July 11, 1955.*
- Public Law 165, 84th Congress (69 Stat. 47)—The Atomic Weapons Rewards Act of 1955—To provide rewards for information concerning the illegal introduction into the United States, or the illegal manufacture or acquisition in the United States of special nuclear materials and atomic weapons. Approved July 15, 1955. (Price, 5 cents.)
- Public Law 221, 84th Congress (69 Stat. 471)—The Atomic Energy Community Act of 1955 (facilitates the establishment of local self-government at the communities of Oak Ridge, Tenn., and Richland, Wash., and provides for the disposal of federally owned properties of such communities). Approved August 4, 1955.*

¹ For a compilation of statutes and material pertaining to atomic energy legislation, brought up to date through Dec. 31, 1969, see Joint Committee print entitled "Atomic Energy Legislation Through 91st Congress, 1st session," available at the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.

*Out of print.

- Public Law 337, 84th Congress (69 Stat. 630)—Authorizes the payment of the salary of a member of the Atomic Energy Commission who is appointed during the recess of Congress, and amends section 21 of the Atomic Energy Act of 1954 relating to the equal authority and responsibility of all AEC Commissioners. Approved August 9, 1955.*
- Public Law 506, 84th Congress (70 Stat. 127)—To authorize appropriations for the Atomic Energy Commission for acquisition or condemnation of real property or any facilities, or for plant or facility acquisition, construction, or expansion, and for other purposes. Approved May 3, 1956.*
- Public Law 722, 84th Congress (70 Stat. 553)—To amend the Atomic Energy Act of 1954, to permit the negotiation of commercial leases at atomic energy communities, and for other purposes. Approved July 14, 1956.*
- Public Law 802, 84th Congress (70 Stat. 653)—To amend the Atomic Energy Community Act of 1955, and for other purposes. Approved July 25, 1956.*
- Public Law 981, 84th Congress (70 Stat. 1035)—To amend Public Law 506, 84th Congress, 2d session, to increase the authorization for appropriations to the Atomic Energy Commission for acquisition or condemnation of real property or any facilities, or for plant or facility acquisition, construction, or expansion, and for other purposes. Approved August 6, 1956.*
- Public Law 1006, 84th Congress (70 Stat. 1069)—To amend the Atomic Energy Act of 1954, as amended, and for other purposes. Approved August 6, 1956.*
- Public Law 85-14, 85th Congress (71 Stat. 11)—To amend the Atomic Energy Act of 1954, as amended, and for other purposes (providing that the President may authorize the Atomic Energy Commission to enter into an agreement with the Federal Republic of Germany on behalf of Berlin). Approved April 12, 1957.*
- Public Law 85-79, 85th Congress (71 Stat. 274)—To amend the Atomic Energy Act of 1954, as amended, and for other purposes (amends section 261—Appropriations—To increase the authorization requirements for appropriations, etc.). Approved July 3, 1957.*
- Public Law 85-162, 85th Congress (71 Stat. 403)—To authorize appropriations for the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved August 21, 1957.*
- Public Law 85-177, 85th Congress (71 Stat. 453)—To provide for the appointment of representatives of the United States in the organs of the International Atomic Energy Agency, and to make other provisions with respect to the participation of the United States in that Agency, and for other purposes. Approved August 28, 1957.*
- Public Law 85-256, 85th Congress (71 Stat. 576)—To amend the Atomic Energy Act of 1954, as amended, and for other purposes (providing for a program of Government indemnification and limitation of liability, and establishes an Advisory Committee on Reactor Safeguards). Approved September 2, 1957.*
- Public Law 85-287, 85th Congress (71 Stat. 612)—To amend the Atomic Energy Act of 1954, as amended, to increase the salaries of certain executives of the Atomic Energy Commission, and for other purposes. Approved September 4, 1957.*
- Public Law 85-412, 85th Congress (72 Stat. 117)—To amend Public Law 85-162, to increase the authorization for appropriations to the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved May 16, 1958.*
- Public Law 85-479, 85th Congress (72 Stat. 276)—To amend the Atomic Energy Act of 1954, as amended, to provide for greater exchange of military information and material with allies. Approved July 2, 1958.*
- Public Law 85-519, 85th Congress (72 Stat. 358)—To further amend Public Law 85-162, to increase authorization for appropriation for the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved July 15, 1958.*
- Public Law 85-590, 85th Congress (72 Stat. 490)—To authorize appropriations for the Atomic Energy Commission for fiscal year 1959 in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved August 4, 1958.*
- Public Law 85-602, 85th Congress (72 Stat. 525)—To amend the Atomic Energy Act of 1954, as amended, with respect to indemnity agreements for the NS Savannah. Approved August 8, 1958.*

*Out of print.

- Public Law 85-681, 85th Congress (72 Stat. 632)—To amend the Atomic Energy Act of 1954, as amended, for various purposes (AEC omnibus bill). Approved August 19, 1958.*
- Public Law 85-744, 85th Congress (72 Stat. 837)—To amend the Atomic Energy Act of 1954, as amended, with respect to indemnity agreements for nonprofit educational institutions. Approved August 23, 1958.*
- Public Law 85-846, 85th Congress (72 Stat. 1084)—To provide for cooperation with the European Atomic Energy Community. Approved August 28, 1958.*
- Senate Concurrent Resolution 116, 85th Congress, to approve agreements between the Government of the United States of America and the European Atomic Energy Community (Euratom) signed at Brussels on May 29, 1958, and at Washington on June 19, 1958, concerning cooperation for the advancement of the peaceful application of atomic energy. Passed both Houses of Congress August 20, 1958.
- Public Law 86-43, 86th Congress (73 Stat. 73)—To amend section 251 of the Atomic Energy Act of 1954, as amended, to provide for the submission by the Atomic Energy Commission of an annual rather than a semiannual report to Congress. Report to be submitted in January of each year. Approved June 11, 1959.*
- Public Law 86-44, 86th Congress (73 Stat. 73)—To amend Public Law 85-590 to increase the authorization for appropriations to the Atomic Energy Commission for project 59-c-5, phermex installation, Los Alamos. Approved June 11, 1959.*
- Public Law 86-50, 86th Congress (73 Stat. 81)—To authorize appropriations for the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes (Authorization Act for fiscal year 1960). Approved June 23, 1959.*
- Public Law 86-300, 86th Congress (73 Stat. 574)—To amend subsection 161m of the Atomic Energy Act of 1954, as amended, with respect to agreements for the reprocessing of irradiated fuel elements, and section 163 of the Atomic Energy Act of 1954, as amended with respect to Atomic Energy Commission advisory committees. Approved September 21, 1959.*
- Public Law 86-373, 86th Congress (73 Stat. 688)—To amend the Atomic Energy Act of 1954, as amended, by adding a new section 274 with respect to Cooperation with States. Approved September 23, 1959.*
- Public Law 86-457, 86th Congress (74 Stat. 120)—To authorize appropriations for the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended. Approved May 13, 1960.*
- Public Law 87-52, 87th Congress (75 Stat. 94)—To authorize construction of community support facilities at Los Alamos County, N. Mex. Approved June 16, 1961.*
- Public Law 87-174, 87th Congress (75 Stat. 409)—To amend section 53 c. of the Atomic Energy Community Act of 1955. Approved August 30, 1961.*
- Public Law 87-206, 87th Congress (75 Stat. 475)—To amend various sections of the Atomic Energy Act of 1954, as amended, and the Euratom Cooperation Act of 1958, and for other purposes. Approved September 6, 1961.*
- Public Law 87-315, 87th Congress (75 Stat. 676)—To authorize appropriations for the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved September 26, 1961.*
- Public Law 87-363, 87th Congress (75 Stat. 782)—To waive certain provisions of the Atomic Energy Act of 1954 so as to permit the agreement for cooperation between the United States and France to be made immediately effective. Approved October 4, 1961.*
- Public Law 87-615, 87th Congress (76 Stat. 409)—To amend the Atomic Energy Act of 1954, as amended, and for other purposes. Approved August 29, 1962.*
- Public Law 87-701, 87th Congress (76 Stat. 599)—To authorize appropriations for the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved September 26, 1962.*
- Public Law 87-719, 87th Congress (76 Stat. 664)—To amend the Atomic Energy Community Act of 1955, as amended, to provide for the disposal of federally owned properties at Los Alamos, N. Mex., and for other purposes. Approved September 28, 1962.*

*Out of print.

- Public Law 88-72, 88th Congress (77 Stat. 84)—To authorize appropriations for The Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved July 22, 1963.*
- Public Law 88-189, 88th Congress (77 Stat. 343)—To amend Public Law 88-72 to increase the authorization for appropriations to the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved November 29, 1963.*
- Public Law 88-294, 88th Congress (78 Stat. 172)—To amend the Atomic Energy Act of 1954 (amends section 202). Approved March 26, 1964.*
- Public Law 88-332, 88th Congress (78 Stat. 227)—To authorize appropriations to the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved June 30, 1964.*
- Public Law 88-394, 88th Congress (78 Stat. 376)—To amend the Atomic Energy Act of 1954, as amended, the Atomic Energy Community Act of 1955, as amended, and the EURATOM Cooperation Act of 1958, as amended (AEC omnibus bill). Approved August 1, 1964.*
- Public Law 88-489, 88th Congress (78 Stat. 602)—To amend the Atomic Energy Act of 1954, as amended, and for other purposes (Private Ownership of Special Nuclear Materials Act). Approved August 26, 1964.*
- Public Law 89-32, 89th Congress (79 Stat. 120)—To authorize appropriations to the Atomic Energy Commission in accordance with Section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved June 2, 1965.*
- Public Law 89-135, 89th Congress (79 Stat. 551)—To amend section 271 of the Atomic Energy Act of 1954, as amended. Approved August 24, 1965.*
- Public Law 89-210, 89th Congress (79 Stat. 855)—To amend section 170 of the Atomic Energy Act of 1954, as amended. Approved September 29, 1965.*
- Public Law 89-428, 89th Congress (80 Stat. 162)—To authorize appropriations to the Atomic Energy Commission in accordance with Section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved May 21, 1966.*
- Public Law 89-645, 89th Congress (80 Stat. 891)—To amend section 170 of the Atomic Energy Act of 1954, as amended. Approved October 13, 1966.*
- Public Law 89-648, 89th Congress (80 Stat. 895)—To amend Public Law 89-428 to authorize the Atomic Energy Commission to enter into a cooperative arrangement for a large-scale combination nuclear power-desalting project. Approved October 13, 1966.*
- Public Law 90-56, 90th Congress (81 Stat. 124)—To authorize appropriations to the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved July 26, 1967.*
- Public Law 90-190, 90th Congress (81 Stat. 575)—To amend the Atomic Energy Community Act of 1955, as amended, the Atomic Energy Act of 1954, as amended, and the EURATOM Cooperation Act of 1958, as amended. Approved December 14, 1967.*
- Public Law 90-289, 90th Congress (82 Stat. 96)—To authorize appropriations to the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved April 19, 1968.*
- Public Law 91-44, 91st Congress (83 Stat. 46)—To authorize appropriations to the Atomic Energy Commission in accordance with section 261 of the Atomic Energy Act of 1954, as amended, and for other purposes. Approved July 11, 1969. (Price, 10 cents.)
- Public Law 91-161, 91st Congress (83 Stat. 444)—To amend sections 153h, 221c, 222, 223, 224, 225, 226, and add section 234 to the Atomic Energy Act of 1954, as amended. Approved December 24, 1969. (Price, 5 cents.)

* Out of print.

VIII. PUBLICATIONS OF THE JOINT COMMITTEE ON ATOMIC ENERGY, 1945-69

(Publications that are followed by a price may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, at the price indicated. When no price is indicated, request may be made, in writing, to the Joint Committee on Atomic Energy, U.S. Capitol, Washington, D.C. 20510, unless an asterisk indicates that the publication is out of print.)

1945-46 (79th Cong.)

- Development and Control of Atomic Energy (on S. 1717, a bill for the development and control of atomic energy.)* Hearings, Jan. 22, 23, 25, 28, 29, 30, 31; Feb. 1, 7, 8, 11, 13, 14, 18, 19, 27; Apr. 4, 8, 1946.
- Essential Information on Atomic Energy.* Monograph. 1946, Monograph No. 1.
- Investigating Problems Relating to the Development, Use, and Control of Atomic Energy (authority of S. Res. 179), pts. 1-5.* Hearings, Nov. 27, 28, 29, 30; Dec. 3, 5, 6, 10, 12, 13, 14, 19, 20, 1945; Feb. 15, 1946.

NOTE.—Above publications by Senate Special Committee on Atomic Energy.

1947 (80th Cong., 1st sess.)

- Confirmation of the Atomic Energy Commission and the General Manager.¹* Hearings, Jan. 27, 28, 30, 31; Feb. 3, 4, 5, 6, 7, 8, 10, 11, 12, 17, 18, 19, 20, 21, 22, 24, 26, 28; Mar. 3, 4.

1948 (80th Cong., 2d sess.)

- Argonne National Laboratory, Du Page County (Ill.) Site.* Committee print, June 17 (subcommittee report).
- Comparison of Atomic Energy Legislation of the United States and Certain Foreign Countries.* Committee print, Dec. 21.
- Labor Policy in Atomic Energy Plants.* Hearings, Mar. 9, 10, 12, 15, 16.

1949 (81st Cong., 1st sess.)

- Atomic Energy Commission Fellowship Program.* Hearings, May 16, 17, 18, and 23.
- Atomic Energy Report to Congress*----- Hearing, Feb. 2.
- Confirmation of Gordon E. Dean and Henry DeWolf Smyth as Members of the Atomic Energy Commission.¹ Hearings, May 12 and 18.
- Dormitory Rental Problem, Oak Ridge, Tenn.* Committee print, Apr. 19 (subcommittee report).
- Hanford School Facilities.----- Hearings, Aug. 2, 4, 8, and 10.
- Investigation Into the United States Atomic Energy Project.* Hearings, May 26; June 1, 2, 6, 8, 9, 13, 15, 16, 17, 20, 21, 22, 23, 24, 28, 29, 30, July 6, 7, 8, 11; appendixes; index.
- Los Alamos Retrocession Bill and AEC Contract Policy.* Hearings, Feb. 17, 21, and 24.
- Natural Gas Facilities for Oak Ridge*--- Hearings, May 2.
- Natural-Gas Pipe Line, Oak Ridge, Tenn.* Committee print, May 23 (subcommittee report).
- Oak Ridge Dormitory Facilities*----- Hearing, Apr. 21.

¹ Confirmation hearings before Senate section of Joint Committee on Atomic Energy.
*Out of print.

Recommendations on Labor Relations Hearing, May 3.
 Policy in Atomic Energy Installations.
 Selection of Site for Reactor Test Station.* Hearings, Apr. 14 and May 10.
 Uranium Inventory at Oak Ridge*----- Hearing, June 20.

1950 (81st Cong., 2d sess.)

Civil Defense Against Atomic Attack: Committee print, February.
 Preliminary Data.*
 Civil Defense Against Atomic Attack*-- Hearings, Mar. 17, 20, 23, 30; Apr. 3,
 Dec. 4.
 Community Policy*----- Hearing, Apr. 18.
 Community Policy*----- Hearing, June 6.
 Confirmation of Sumner T. Pike to be a Member of the Atomic Energy Commission.¹* Hearing, June 29.
 Confirmation of Thomas E. Murray to be a Member of the Atomic Energy Commission.¹* Hearing, Mar. 29.
 Confirmation of Thomas Keith Glennan to be a Member of the Atomic Energy Commission.¹* Hearing, Aug. 16.
 Department Store Lease at Oak Ridge, Tenn.*** Hearing, Mar. 13 and 14.
 Hanford School Facilities*----- Hearing, Mar. 3.
 Hanford School Facilities*----- Committee print, Mar. 15 (subcommittee report).
 Lease of an Oak Ridge Department Store.* Committee print, Mar. 30 (subcommittee report).
 Patent Aspects of the Atomic Energy Act.* Hearing, Mar. 31.
 The Hydrogen Bomb and International Control: Technical and Background Information.* Committee print, July.

1951 (82d Cong., 1st sess.)

Expanded Atomic Production Program.* Hearing, Sept. 27.
 Housing for Savannah River and Paducah.* Hearing, Feb. 16.
 Soviet Atomic Espionage*----- Committee print, April.

1952 (82d Cong., 2d sess.)

Amending the Atomic Energy Act*----- Hearings, Feb. 19, 20, 27; Mar. 10, 14, 17.
 Atomic Power and Private Enterprise**-- Committee print, December (price, \$1.25).
 Confirmation of Eugene M. Zuckert as a Member of the Atomic Energy Commission.¹* Hearing, Jan. 29.
 State Taxation of AEC Contractors*----- Hearing, Apr. 24.
 The Atomic Energy Act of 1946, With Amendments Through the 82d Congress.*² Committee print, November.
 Wage Payments at Nevada Test Site*---- Hearing, Jan. 30.

1953 (83d Cong., 1st sess.)

Atomic Power Development and Private Enterprise.* Hearings, June 19, 24, 25; July 1, 6, 9, 13, 15, 16, 20, 22, 23, 27, and 31.
 Atomic Power Development and Private Enterprise.* Summary of the hearing (report), December.

¹ Confirmation hearings before Senate section of Joint Committee on Atomic Energy.

² Current print now available.

*Out of print.

**Available only at the Government Printing Office.

***Available only at the office of the Joint Committee.

Index to Press Releases of the Atomic Energy Commission (1947-51).* Committee print.
 Legislation Concerning Long-Term Utility Contracts (amending the Atomic Energy Act of 1946).* Hearings, Apr. 28 and June 10 (H.R. 4905).
 The Atomic Energy Act of 1946. With Amendments Through the 83d Cong., 1st sess.*² Committee print, December.

1954 (83d Cong., 2d sess.)

A. Proposed Act To Amend the Atomic Energy Act of 1946.* Committee print, April.
 Disposal of Government-Owned Community at Richland, Wash.* Hearings, June 18 and 19 (Part 1).
 Exercise of Statutory Requirements Under Sec. 164, Atomic Energy Act of 1954—Utility Contract Between Atomic Energy Commission and Mississippi Valley Generating Co.* Hearings, Nov. 4, 5, 6, 8, 9, 10, 11, 12, and 13.
 Five-Year Power Reactor Development Program Proposed by the Atomic Energy Commission.* Report of the Subcommittee on Research and Development, March.
 Index to Press Releases of the Atomic Energy Commission (1952-53).* Committee print, October.
 Proposed Legislation To Effect Disposal of Government-Owned Communities at Oak Ridge, Tenn., and Richland, Wash., and Other Pertinent Documents.* Committee print, April.
 Providing Radioisotopes for Medical Research.* Report, August.
 S. 3323 and H.R. 8862, To Amend the Atomic Energy Act of 1946.* Hearings (pt. 1 of 2 parts), May 10, 11, 12, 13, 14, 17, 18, and 19.
 S. 3323 and H.R. 8862, To Amend the Atomic Energy Act of 1946.* Hearings (pt. 2 of 2 parts), June 2, 3, 4, 5, 8, 17, and 18.
 The Contribution of Atomic Energy to Agriculture.* Hearings (Subcommittee on Research and Development), Mar. 31, and Apr. 1.
 The Contribution of Atomic Energy to Medicine.* Hearings (Subcommittee on Research and Development), June 2, 3, and 4.

1955 (84th Cong., 1st sess.)

AEC-FCDA Relationship*----- Hearing, Mar. 24.
 Authorizing Legislation*----- Hearings, May 2, 9, 10, and 31 (Subcommittee on Authorizing Legislation).
 Confirmation of AEC Commissioners, June 1953 to March 1955.¹ * Hearings, June 27, July 20, 1953, Nov. 18, 1954, and Mar. 8, 1955 (Senate section of the Joint Committee).
 Current Statement of the Atomic Energy Commission on the 5-Year Reactor Development Program to the Subcommittee on Research and Development.* Committee print, May 4.
 Development, Growth, and State of the Atomic Energy Industry.* Hearings (pt. 1 of 3 parts), Jan. 31, Feb. 1, 3, and 4.
 Development, Growth, and State of the Atomic Energy Industry.* Hearings (pt. 2 of 3 parts), Feb. 7, 8, 9, and 10.
 Development, Growth, and State of the Atomic Energy Industry.* Hearings (pt. 3 of 3 parts) Feb. 28, Mar. 1, 2, and 3.

¹ Confirmation hearings before Senate section of Joint Committee on Atomic Energy.
² Current print now available.

*Out of print.

- Development, Growth, and State of the Atomic Energy Industry, Index to Hearings.* Committee print, Aug. 5.
- Disposal of Government-Owned Community at Los Alamos, N. Mex.* Hearing, Sept. 6.
- Disposal of Government-Owned Communities at Oak Ridge, Tenn., and Richland, Wash.* Committee print, April.
- Disposal of Government-Owned Community at Oak Ridge, Tenn.* Hearing, June 10 (Ad Hoc Subcommittee on Disposal of Government-Owned Communities).
- Disposal of Government-Owned Community at Richland, Wash., Part II.* Hearing, July 5.
- Health and Safety Problems and Weather Effects Associated with Atomic Explosions.* Hearing, Apr. 15.
- Radiation Sterilization of Foods*----- Hearing, May 9 (Subcommittee on Research and Development).
- Report of Comptroller General on Atomic Energy Commission Contracts for Electric Power: Report, Mar. 31.
- Part I—Review of EBASCO Services, Inc., Performance at Joppa, Ill., Steam Electric Station of Electric Energy, Inc.*
- Visit to Australia*----- Report (Raw Materials Subcommittee), Feb. 9.
- Waiver Action (Nov. 13, 1954) by the Joint Committee on Atomic Energy, 83d Cong., 2d sess.—Utility Contract Between the Atomic Energy Commission and Mississippi Valley Generating Co.* Report, January.
- 1956 (84th Cong., 2d sess.)
- Accelerating Civilian Reactor Program*-- Hearings, May 23, 24, 25, 28, 29.
- Atomic Energy Legislation through 84th Congress.*² Committee print, December.
- Authorizing Legislation*----- Hearings, Feb. 17 and Mar. 27.
- Civilian Atomic Power Acceleration Program.*³ Hearing, June 28.
- Development, Growth, and State of the Atomic Energy Industry.* Hearings, Feb. 7, 8, 15, 16, and 23 (pt. 1 of 2 parts).
- Development, Growth, and State of the Atomic Energy Industry.* Hearings, Feb. 29, Mar. 1, 5, and 6 (pt. 2 of 2 parts).
- Index to Hearings on Development, Growth, and State of the Atomic Energy Industry.* Committee print, December.
- Engineering and Scientific Manpower in the United States, Western Europe, and Soviet Russia.* Committee print, March.
- Government Indemnity*----- Hearings, May 15, 16, 17, 18, 21, and June 14.
- Index to Press Releases of the Atomic Energy Commission, 1954-55.* Committee print, November.
- Membership, Acts Amending the Atomic Energy Act of 1946, and list of committee publications.*³ Committee print, February.
- Progress Report on Research in Medicine, Biology, Agriculture, and Food Preservation.* Hearings (Subcommittee on Research and Development), June 4, 5, 6, 7, and 8.
- Proposed Amendment to Public Law 221.* Hearing, Feb. 10 (Subcommittee on Communities).

¹ Current print now available.

² Out of print.

³ Available only at Government Printing Office.

***Available only at the Joint Committee.

- Report of Comptroller General on Atomic Energy Commission Contracts for Electric Power: Parts II and III—Review of Electric Energy, Inc., and Ohio Valley Electric Corp.* Committee print, Aug. 9.
- Report of the Panel on the Impact of the Peaceful Uses of Atomic Energy to the Joint Committee on Atomic Energy (vol. I).* Committee print, January.
- Report of the Panel on the Impact of the Peaceful Uses of Atomic Energy to the Joint Committee on Atomic Energy (Background Material—vol. II).* Committee print, January.
- Sale of Communities (1956)***----- Hearings (Subcommittee on Communities), June 11, 19, 20, and 21.
- Shortage of Scientific and Engineering Manpower.*** Hearings, Apr. 17, 18, 19, 25, 26, and May 1 (Subcommittee on Research and Development).
- Shortage of Scientific and Engineering Manpower.*** Report of Subcommittee on Research and Development, July 1.
- 1957 (85th Cong., 1st sess.)
- A Study of AEC Procedures and Organization in the Licensing of Reactor Facilities. Committee print, April (price, 55 cents).
- AEC Headquarters Building Wing*----- Hearing, May 23.
- Atomic Energy Legislation through 85th Cong., 1st sess.* Committee print, December.
- Authorization Legislation *----- Hearings (pt. 1 of 2 parts), April 10, 16, and June 12, 13, 14, 17, 18, 24, 25, 26, and 27.
- Do.*----- Hearings (pt. 2 of 2 parts), July 9.
- Authorizing Legislation. Index to Hearings of 1955, 1956, and 1957.*** Committee print, December.
- Congressional Review of Atomic Energy Program.*** Hearings May 23 and June 10.
- Development, Growth, and State of the Atomic Energy Industry.*** Hearings (pt. 1 of 2 parts), Feb. 19, 20, 21, and 25.
- Do.*** Hearings (pt. 2 of 2 parts), Feb. 26, 27, 28, and Mar. 5.
- Development, Growth, and State of the Atomic Energy Industry. Index to Hearings.*** Committee print, July.
- Development of Scientific Engineering and other Professional Manpower (with emphasis on the role of the Federal Government).* Committee print, May.
- Governmental Indemnity and Reactor Safety.*** Hearings, Mar. 25, 26, and 27.
- Membership, Acts Amending the Atomic Energy Act of 1946, and list of Committee Publications.* Committee print, March.
- Naval Reactor Program and Shipping-Port Project.*** Hearings, Mar. 7 and Apr. 12.
- Participation Act of the International Atomic Energy Agency, S. 2341.* Hearing, July 2.
- Report of the Conferences on the Statute of the International Atomic Energy Agency by Congressional Advisers.* Committee print, January.
- Review of Proposals Under Power Demonstration Program.* Hearing, Sept. 17.

² Current print now available.

*Out of print.

***Available only at the office of the Joint Committee.

Statute of the International Atomic Energy Agency Hearings before the Committee on Foreign Relations and Senate Members of the Joint Committee on Atomic Energy.*	May 10, 14, 15, and 20.
The Nature of Radioactive Fallout and Its Effects on Man.***	Hearings (pt. 1 of 3 parts), May 27, 28, 29, and June 3.
Do.***	Hearings (pt. 2 of 3 parts), June 4, 5, 6, and 7.
Do.*	Index to Hearings (pt. 3 of 3 parts).
Do.*	Summary-Analysis of the Hearings, committee print, August.
West Berlin Reactor***	Hearing, Mar. 6.
1958 (85th Cong., 2d sess.)	
AEC Authorizing Legislation*	Hearings (Subcommittee on Legislation), May 14, 19, 27; June 4, 10, and 11 (Contains hearings on May 19, 1958, on H.R. 12457 (S. 3786). Increased authorization for Project Sherwood and Particle Accelerator Program).
Do.*	Index to hearings.
AEC "Omnibus" Bill*	Hearings (Subcommittee on Legislation), July 10, 17, and 18.
Amending the Atomic Energy Act of 1954 To Permit Greater Exchange of Military Information and Material With Allied Nations.	Hearings (Subcommittee on Agreements for Cooperation), Jan. 29, 30, and 31; Feb. 4, 5, and 27; Mar. 5, 26, 27, and 28, Apr. 17.
Atomic Energy Legislation through 85th Cong., 2d sess.* 2	Committee print, December.
Authorizing Legislation for Destroyer Reactor Plant.*	Hearings (Subcommittee on Legislation), Mar. 14.
Comments of Reactor Designers and Industrial Representatives on the Proposed Expanded Civilian Nuclear Power Program.	Committee print, December (price, 55 cents).
Development, Growth and State of the Atomic Energy Industry (1958 Section 202 Hearings).*	Hearings, Feb. 19, 20, 21, 26, and 28; Mar. 3 and 4.
Do.*	Index to hearings.
Membership, Legislation, and Publications of the Joint Committee on Atomic Energy.* 2	Committee print, March.
Nomination of John A. McCone*	Hearings (Senate section of the Joint Committee), July 2.
Operation of AEC Indemnity Act*	Hearings, May 8 and July 9 (contains hearings on July 8 and 17, 1958, on H.R. 13455 (S. 4164) and H.R. 13456 (S. 4165), Indemnity for Colleges and Universities and NS Savannah).
Outer Space Propulsion by Nuclear Energy.*	Hearings (Subcommittee of the JCAE), Jan. 22, 23, and Feb. 6.
Physical Research Program as It Relates to the Field of Atomic Energy.***	Hearings (Subcommittee on Research and Development), Feb. 3, 4, 5, 6, 7, 10, 11, 13, and 14.
Do.***	Report of Subcommittee on Research and Development, committee print, August.
Do.***	Index to hearings.
Problems of the Uranium Mining and Milling Industry.*	Hearings, Feb. 19, 24, and 25.
* Current print now available.	
* Out of print.	
*** Available only at the office of the Joint Committee.	

Proposed Expanded Civilian Nuclear Power Program.***	Committee print, August.
Proposed EURATOM Agreements (with associated documents and materials).***	Committee print, July.
Proposed EURATOM Agreements*-----	Hearings, pt. 1, July 22, 23, 24, 29, and 30.
Do.*-----	Pt. 2, Aug. 5, 7, and 13.
Do.***-----	Index to hearings.
Report of the Underseas Warfare Advisory Panel to the Military Applications Subcommittee of the JCAE.*	Committee print, August.
Report on First General Conference of International Atomic Energy Agency.***	Committee print, April.
Review of Proposals Under Power Demonstration Program.***	Hearings (Subcommittee on Legislation), Mar. 12, 14, and May 22, 23.
Technical Aspects of the Report on the the Gas-Cooled, Graphite-Moderated Reactor.***	Hearings (Subcommittee on Legislation), Apr. 22.

1959 (86th Cong., 1st sess.)

Aircraft Nuclear Propulsion Program.***	Hearings, July 23.
Do.***-----	Report, September.
AEC Authorizing Legislation, Fiscal Year 1960.*	Hearings, Feb. 7 and 27; Mar. 23, 24, and 25; Apr. 13, 14, and 15; and May 8.
AEC Report on Indemnity Act and Advisory Committee on Reactor Safeguards.***	Committee print, April.
Agreements for Cooperation with EURATOM.***	Hearings, Jan. 21 and 22.
Agreements for Cooperation for Mutual Defense Purposes.***	Hearings, June 11, 12, and 17; July 1 and 2.
Agreement for Cooperation between the United States and the International Atomic Energy Agency.***	Hearings, June 30.
Amending the Atomic Energy Act and Authorization of Stanford Accelerator Project.***	Hearings, Aug. 26.
Atomic Energy Legislation through the 86th Cong., 1st sess.* ²	Committee print, December.
Atomic Energy Patents, Selected Materials on.*	Committee print, March (2 volumes).
Atomic Energy Patents*-----	Hearings, Apr. 21, 22, and 23.
Biological and Environmental Effects of Nuclear War.***	Hearings, July 22, 23, 24, 25, and 26 (price, \$3.75).
Do-----	Summary-Analysis of Hearings (price \$1.25).
Community Problems at Los Alamos.***	Hearing, Dec. 7.
Development, Growth and State of the Atomic Energy Industry.*	Hearings, Feb. 17, 18, 19, 24, 25, and 26.
Do.*-----	Index to hearings.
Employee Radiation Hazards and Workmen's Compensation—Selected Materials.*	Committee print, February.
Employee Radiation Hazards and Workmen's Compensation.*	Hearings, Mar. 10, 11, 12, 17, 18, and 19.
Do.***-----	Summary-Analysis of Hearings, September.
Fallout from Nuclear Weapons Tests-----	Hearings, May 5, 6, 7, and 8 (vol. 1, \$2.75; vol. 2, \$2.75; vol. 3, \$1.75).
Do.*-----	Summary-Analysis of Hearings, August.
Do.*-----	Vol. 4. Index to hearings.

² Current print now available.

*Out of print.

***Available only at the office of the Joint Committee.

Federal-State Relationships in the Atomic Energy Field, Selected Materials.***	Committee print, March (price, \$1.50).
Federal-State Relationships in the Atomic Energy Field.*	Hearings, May 19, 20, 21, and 22.
Indemnity and Reactor Safety***-----	Hearings, Apr. 29 and 30.
Industrial Radioactive Waste Disposal.***	Hearings, Jan. 28, 29, and 30; Feb. 2 and 3; and July 29 (5 volumes).*
Do.***-----	Summary-Analysis of Hearings, August.
Membership, Legislation and Publications of the JCAE.* ²	Committee print, February.
Review of Naval Reactor Program and Admiral Rickover Award.*	Hearings, Apr. 11 and 15.
Scientific Research in Great Britain*-----	Committee print, December.
Stanford Linear Electron Accelerator.-----	Hearings, July 14 and 15.

1960 (86th Cong., 2d sess.)

AEC Authorizing Legislation, Fiscal Year 1961.*	Hearings, Mar. 8, 10, 11, and Apr. 5, 6, and 7.
AEC Community Problems***-----	Hearings, June 13.
Atomic Energy Legislation through the 86th Cong., 2d sess.** ²	Committee print, December.
Development, Growth, and State of the Atomic Energy Industry.*	Hearings, Feb. 16, 17, 18, 19, 23, 24, and 25.
Frontiers in Atomic Energy Research*---	Hearings, Mar. 22, 23, 24, and 25.
Do.***-----	Summary-Analysis of Hearings, August.
Future Role of the AEC Laboratories***-	Committee print, October.
Indemnity and Reactor Safety***-----	Hearings, Apr. 26 and 27.
Membership, Legislation and Publications of the JCAE.* ²	Committee print, February.
National Food Irradiation Research Program.*	Hearings, pt. 1, Jan. 14, and 15; pt. 2, Mar. 31.
Naval Reactor Program and Polaris Missile System.*	Hearings, Apr. 9.
Omnibus Bills, 1960***-----	Hearings, May 17 and 18.
Radiation Protection Criteria and Standards: Their Basis and Use.*	Committee print, May. Selected Materials (price, \$3.25).
Do.*-----	Hearings, May 24, 25, 26, 31, and June 1, 2, and 3 (price, \$2.25).
Do.-----	Summary-Analysis of Hearings, October (price, 25 cents).
Review of International Atomic Policies and Programs of the United States:	
Vol. I*-----	Report to the Joint Committee on Atomic Energy. Committee print, October.
Vols. II, III, IV, and V*-----	Background material.
Review of Proposed Power Demonstration Project.*	Hearings, June 10.
Technical Aspects of Detection and Inspection Controls of a Nuclear Weapons Test Ban.*	Hearings, Apr. 19, 20, 21, and 22, pt. 1.
Do.*-----	Appendix to hearings, pt. 2.
Do.*-----	Summary-Analysis of Hearings, May.

* Current print now available.

*Out of print.

**Available only at the Government Printing Office.

***Available only at the office of the Joint Committee.

1961 (87th Cong., 1st sess.)

AEC Authorizing Legislation-----	Hearings, May 1, 2, 3, 10, 11, 17, 18, 19, and June 6.
AEC Omnibus Bills, 1961, and Amendment to sec. 170 of the Atomic Energy Act.***	Hearings, June 27 and 29.
AEC Raw Materials Program*-----	Hearings, Nov. 15, 16.
Agreement for Cooperation with Italy for Mutual Defense Purposes.***	Hearing, Mar. 9.
Agreement for Cooperation with France for Mutual Defense Purposes.	Hearing, Sept. 12.
Applications of Radioisotopes and Radiation in the Life Sciences.*	Hearings, Mar. 27, 28, 29, and 30.
Do.-----	Summary-analysis, June.
Atomic Energy Legislation through the 87th Cong., 1st sess.* ²	Committee print, December (price 75 cents).
Detection and Identification of Nuclear Explosions: Developments in the Field.*	Hearings, July 25, 26, 27.
Do.***-----	Summary-analysis of hearings.
Development, Growth and State of the Atomic Energy Industry.*	Hearings, Feb. 21, 24, 27, 28, and Mar. 1, 2, 3.
High Energy Physics Program and the Proposed Stanford Linear Electron Accelerator Project: Background Information.	Report to the Joint Committee on Atomic Energy.
Improving the AEC Regulatory Process.*	Committee print, vol. I, March.
Do.*-----	Committee print, vol. II, appendix, March.
Do.*-----	Views and comments, committee print, June.
Indemnity Provisions of the Atomic Energy Act of 1954, Operations Under Membership, Publications, and Other Pertinent Information Through the 86th Cong., 2d sess.* ²	Hearings, July 18, 19, 20.
Nuclear Energy for Space Propulsion and Auxiliary Power.*	Committee print, March.
Power Conversion Studies Hanford New Production Reactor.*	Index to hearings and selected materials, July.
Radiation Protection Criteria and Standards: Their Basis and Use.*	Hearings, June 12, 13, 14, and 15.
Radiation Safety and Regulation*-----	Committee print, June.
SL-1 Accident (AEC Investigation Board Report).***	

1962 (87th Cong., 2d sess.)

AEC Regulatory Problems*-----	Hearing, Apr. 17.
AEC Uranium Procurement Program*---	Hearings, June 18 and 19.
Atomic Energy Legislation through 87th Cong., 1st sess.* ²	Committee print.
Authorizing Legislation, 1963*-----	Hearings, Apr. 5 and 6, May 16, 17, 18, 21, and 29.
Development, Growth, and State of the Atomic Energy Industry (202's).*	Hearings, Mar. 20-23.
Disposal of the Los Alamos Community--	Hearing, Apr. 23.
Indemnity and Reactor Safety*-----	Hearings, Apr. 10 and 11.
International Agreements for Cooperation.	Hearing, June 25.

* Current print now available.

*Out of print.

***Available only at the office of the Joint Committee.

Membership, Publications, and Other Pertinent Information Through the 87th Cong., 1st sess.* ²	Committee print, January.
Peaceful Uses of Atomic Energy*-----	Hearings, Apr. 10.
Proposed Arrangements for Electric Generating Facilities at Hanford New Production Reactor.	Hearing, Sept. 27.
Radiation Standards, Including Fallout. (Pts. 1 and 2.)*	Hearings, June 4-7.
Summary-Analysis*-----	Committee print, September.
Review of AEC and Army Food Irradiation Program.*	Hearings, Mar. 6 and 7 (price, \$3)..
Space Nuclear Power Applications*-----	Hearings, Sept. 13, 14, and 19.
Tour of the U.S.S. <i>Enterprise</i> and Report on Joint AEC-Naval Reactor Program.	Hearing, Mar. 31.
U.S. Policy Toward the International Atomic Energy Agency.	Hearing, Aug. 2.
Utility Proposal for Powerplant Addition to Hanford NPR.	Committee print, July.
Do-----	Hearings, July 10 and 11.
1963 (88th Cong., 1st sess.)	
AEC Authorizing Legislation, Fiscal Year 1964.*	Hearings, Apr. 9, 10, and May. 2..
AEC Omnibus Bills for 1963 and 1964 ² ----	Hearings, July 17, 1963, and May 19, 1964.
AEC Supplemental Authorizing Legislation, Fiscal Year 1964.*	Hearing, Oct 31.
Atomic Energy Legislation Through 88th Cong., 1st sess. December 1963.* ²	Committee print.
Chemical Reprocessing Plant-----	Hearing, May 14.
Cooperative Power Reactor Demonstration Program, 1963.*	Hearings, July 9, Aug. 7, and Oct. 15.
Development, Growth, and State of the Atomic Energy Industry:	
Part 1*-----	Hearings, Feb. 20, 21.
Part 2*-----	Hearings, Apr. 2, 3, 4, and 5.
Development in Technical Capabilities for Detecting and Identifying Nuclear Weapons Tests.***	Hearings, Mar. 5, 6, 7, 8, 11, and 12..
Fallout, Radiation Standards, and Countermeasures:	
Part 1***-----	Hearings, June 3, 4, and 6.
Part 2*-----	Hearings, Aug. 20, 21, 22, and 27.
International Agreements for Cooperation* ³	Hearings, Sept. 5, 1963, Apr. 22 and June 30, 1964.
Membership, Publications, and Other Pertinent Information—88th Cong., 1st sess. (February 1963).* ²	Committee print.
Nevada Test Site Community-----	Hearings, Sept. 12 and Oct. 16.
Nuclear Test Ban Treaty, Hearings before the Committee on Foreign Relations, the Committee on Armed Services and Senate Members of the Joint Committee on Atomic Energy.*	Hearings, Aug. 12, 13, 14, 15, 19, 20, 21, 22, 23, 26, and 27.
Nuclear Propulsion for Naval Surface Vessels.*	Hearings, Oct. 30, 31, and Nov. 13.
Do.*-----	Report, December.
Private Ownership of Special Nuclear Materials, 1963.	Hearings, July 31 and Aug. 1.
Review of the Army Food Irradiation Program.*	Hearing, May 13.

* Current print available.

² Not printed until 1964.

* Out of print.

** Available only at the Government Printing Office.

*** Available only at the office of the Joint Committee.

1964 (88th Cong., 2d sess.)

AEC Authorizing Legislation, 1965:
 Part 1*----- Hearings, Jan. 22, 23, 27, Feb. 3, 4, and 7.
 Part 2*----- Hearings, Feb. 5, 6, 18, 19, 20, and Mar. 4.
 Part 3*----- Hearings, Feb. 20, 25, 26, 27, Mar. 2, and 3.
 AEC Omnibus Bills for 1963 and 1964*-- Hearings, July 17, 1963, and May 19, 1964.
 Atomic Energy Legislation Through 88th Cong., 2d sess.*² Committee print, December.
 Agreement for Cooperation With NATO for Mutual Defense Purposes.* Hearings, July 30 and Aug. 18.
 International Agreements for Cooperation.* Hearings, Sept. 5, 1963, and Apr. 22 and June 30, 1964.
 Loss of the U.S.S. *Thresher****----- Hearings, June 26, 27, July 23, 1963, and July 1, 1964.
 Nuclear Power Economics—Analysis and Comments, 1964.* Committee print, October.
 Private Ownership of Special Nuclear Material, 1964.* Hearings, June 9, 10, 11, 15, and 25.
 Stanford Accelerator Power Supply----- Hearing, Jan. 20.
 Use of Nuclear Power for the Production of Fresh Water from Salt Water.*** Hearing, Aug. 18.

1965 (89th Cong., 1st sess.)

AEC Authorizing Legislation, 1966:
 Part 1*----- Hearings, Jan. 27, Feb. 2, 3, 4, 10, 16 and Mar. 10.
 Part 2*----- Hearings, Feb. 8, 9, 10 and Apr. 8.
 Part 3*----- Hearings, Mar. 11, 18, 19, 24 and Apr. 13.
 Atomic Energy Legislation Through the 89th Cong., 1st sess. Committee print, December.
 Current Membership, Publications, and Other Pertinent Information of the Joint Committee on Atomic Energy.*² Committee print, February.
 Development, Growth, and State of the Atomic Energy Industry (202's).*** Hearings, Aug. 10 and 11 and Sept. 8.
 Federal Radiation Council Protective Action Guides.* Hearings, June 29 and 30.
 High Energy Physics Program: Report on National Policy and Background Information.*** Committee print, February.
 High Energy Physics Research***----- Hearings, Mar. 2, 3, 4 and 5.
 International Agreements for Cooperation.*** Hearings, Apr. 29, June 4 and July 13 and 27.
 Peaceful Applications of Nuclear Explosives—Pflowshare.* Hearings, Jan. 5.
 Proposed Amendment to Section 271 of the Atomic Energy Act of 1954.* Hearings, May 27 and June 2.
 Proposed Extension of AEC Indemnity Legislation.*** Hearings, June 22, 23 and 24.
 Radiation Processing of Foods*----- Hearings, June 9 and 10.
 Selected Materials on Atomic Energy Indemnity Legislation.*** Committee print, June.
 Space Nuclear Power Generators***----- Hearings, Aug. 6.

² Current print available.

*Out of print.

**A available only at the Government Printing Office.

***A available only at the office of the Joint Committee.

1966 (89th Cong., 2d sess.)

AEC Authorizing Legislation, 1967:

Part 1*	Hearings, Jan. 25, Feb. 15 and Mar. 4 and 8 (price, \$2).
Part 2*	Hearings, Feb. 16, 17, Mar. 3, 15 and 16 (price, \$1.75).
Part 3*	Hearings, Feb. 2, Mar. 8, 9, 10, 11 and 15 (price, \$2.25). Committee print, December.
Atomic Energy Legislation Through the 89th Cong., 2d sess.* ²	
Current Membership of the Joint Committee on Atomic Energy * ²	Committee print, February.
International Agreements for Cooperation, 1966.***	Hearings, Jan. 27, May 26, June 28 and Aug. 25.
Enrico Fermi Reactor: Use for Irradiation Testing.***	Hearing, Apr. 5.
Naval Nuclear Propulsion Program*-----	Hearing, Jan. 26.
Nonproliferation of Nuclear Weapons (S. Res. 179).***	Hearings, Feb. 23 and Mar. 1 and 7.
Proposed Amendments to Price-Anderson Act Relating to Waiver of Defenses.***	Hearings, July 19, 20 and 21.
Proposed Large-Scale Combination Nuclear Power-Desalting Project.***	Hearing, Sept. 14.
Recordkeeping and Workmen's Compensation for Radiation Workers.***	Hearings, Aug. 30, 31, Sept. 20, 21 and 22.
Review of Developments in the Food Irradiation Programs.*	Hearing, Sept. 12.
Uranium Enrichment Services Criteria and Related Matters.***	Hearings, Aug. 2, 3, 4, 16 and 17.

1967 (90th Cong., 1st sess.)

AEC Authorizing Legislation, fiscal year 1968:

Part 1*	Hearings, Jan. 25, Feb. 7, 8, 9, and 28.
Part 2*	Hearings, Mar. 14 and 15.
Part 3*	Hearings, Feb. 28, Mar. 2 and 3.
AEC Omnibus Legislation 1967***	Hearings, Aug. 11, 15, and 24.
Atomic Energy Legislation Through the 90th Cong., 1st sess.* ²	Committee print, December.
Impact of Chinese Communist Nuclear Weapons Progress on United States National Security.***	Committee print, July.
International Agreements for Cooperation, 1967-68.*** ²	Hearings, Mar. 29, 1967 and June 25, 1968.
LaCrosse Boiling Water Reactor Project ⁴ . Licensing and Regulation of Nuclear Reactors:	Hearing, May 4 (price, \$2.25).
Part 1***	Hearings, Apr. 4, 5, 6, 20, and May 3.
Part 2***	Hearings, Sept. 12, 13, and 14.
Naval Nuclear Propulsion Program, 1967-68.* ³	Hearings, Mar. 16, 1967 and Feb. 8, 1968.
Radiation Exposure of Uranium Miners:	
Part 1***	Hearings, May 9, 10, 23, June 6, 7, 8, 9, July 26, 27, and Aug. 8 and 10.
Part 2***	Backup and reference materials to part 1, above.
Scope, Magnitude and Implications of the United States Antiballistic Missile Program.***	Hearings, Nov. 6 and 7.

* Current print now available.

² Not printed until 1968.³ Not printed until 1969.⁴ Out of print.

*** Available only at the office of the Joint Committee.

1968 (90th Cong., 2d sess.)

AEC Authorizing Legislation, fiscal year 1969:

Part 1*-----	Hearings, Jan. 30, 31, and Feb. 5 and 6.
Part 2*-----	Hearings, Feb. 7 and 21.
Atomic Energy Legislation through the 90th Cong., 2d sess. ¹	Committee print, December (price, \$1.50).
Commercial Plowshare Services-----	Hearings, July 19 (price, \$2.25).
Current Membership of the Joint Committee on Atomic Energy. ²	Committee print, February.
International Agreements for Cooperation, 1967-68. ^{***}	Hearings, Mar. 20, 1967, and June 25, 1968.
Naval Nuclear Propulsion Program 1967-68.*	Hearings, Mar. 16, 1967, and Feb. 8.
Nuclear Power Economics, 1962 through 1967.**	Committee print, February (price, \$1).
Nuclear Submarine of Advanced Design:	
Part 1-----	Hearing, June 21 (price, 40 cents).
Part 2-----	Hearing, July 19 (price, 45 cents).
Participation by Small Electrical Utilities in Nuclear Power:	
Part 1*-----	Hearings, Apr. 30, May 1, 2, and 3.
Part 2*-----	Hearings, June 11, 12, and 13.
Radiation Exposure of Uranium Miners--	Summary-Analysis of hearings, December 1967 (price, 20 cents).
Status of Food Irradiation Program*-----	Hearings, July 18 and 30.

1969 (91st Cong., 1st sess.)

AEC Authorizing Legislation, FY 1970:

Part 1-----	Hearings Apr. 17 and 18 (price, \$3.50).
Part 2-----	Hearings Apr. 24 and 25 (price, \$3.25).
Part 3-----	Hearings Apr. 29 and 30 (price, \$3.25).
Atomic Energy Legislation through the 91st Cong., 1st sess. ¹	Committee print, December (price, \$1.50).
AEC Omnibus Legislation--1969***-----	Hearings Sept. 12, 1969.
Current Membership of the Joint Committee on Atomic Energy. ²	Committee print, February.
Selected Materials on Environmental Effects of Producing Electric Power**--	Committee Print, August (price \$2.50).
Environmental Effects of Producing Electric Power, Part 1.	Hearings Oct. 28, 29, 30, and 31, Nov. 4, 5, 6, and 7 (price, \$4.50).
LaCrosse Boiling Water Reactor Project--	Hearing May 4, 1967. (price, \$2.25).
Naval Nuclear Propulsion Program, 1969--	Hearing Apr. 23 (price, \$1).
Nuclear Explosion Services for Industrial Application.	Hearings May 8, 9, and July 17, (price, \$3.25).
Prelicensing Antitrust Review of Nuclear Power Plants.	Hearings Nov. 18, 19 and 20 (price, \$1.25).
Radiation Standards for Uranium Mining--	Hearings Mar. 17 and 18 (price, \$1.50).
Selected Materials Concerning the Future Ownership of the AEC's Gaseous Diffusion Plants.	Committee print, June (price, \$2).
Future Ownership of the AEC's Gaseous Diffusion Plants.	Hearings July 8 and 9, Aug. 5, 7 and 8 (price, \$2.50).

¹ Current print now available.² Out of print.^{**} Available only at the Government Printing Office.^{***} Available only at the office of the Joint Committee.

IX. LEGISLATIVE REPORTS OF THE JOINT COMMITTEE ON ATOMIC ENERGY, 1948-69¹

1948 (80TH CONG., 2D SESS.)

Subject	Bill No.	Date	Report No.
Amending the Atomic Energy Act of 1946 so as to provide that no person shall take office as a member of the Atomic Energy Commission or as General Manager of such Commission until an investigation with respect to the character, associations, and loyalty of such person shall have been made by the Federal Bureau of Investigation.	S. 1004..... H.R. 5216.....	Jan. 30 Feb. 2	S. Rept. 851. H. Rept. 1290. Vetoed by the President May 15; Senate failed to pass over veto May 21, 1948.
Development and Control of Atomic Energy (first report of the Joint Committee on Atomic Energy to the Congress of the United States).	Jan. 30 do.	S. Rept. 850. H. Rept. 1289.
Supplemental report, to accompany H.R. 5216, amending the Atomic Energy Act of 1946 so as to provide that no person shall take office as a member of the Atomic Energy Commission or as General Manager of such Commission until an investigation with respect to the character, associations, and loyalty of such person shall have been made by the Federal Bureau of Investigation.	H.R. 5216.....	Feb. 17	H. Rept. 1290, pt. 2.
Providing for extension of the terms of office of the present members of the Atomic Energy Commission.	S. 2589..... H.R. 6402..... S. 2589..... H.R. 6402.....	May 17 May 24 do.	S. Rept. 1342. H. Rept. 1973. S. Rept. 1342, pt. 2, minority views. H. Rept. 1973, pt. 2, minority views.

1949 (81ST CONG., 1ST SESS.)

Amending the Atomic Energy Act, to provide for changes in the Military Liaison Committee.	S. 2372..... H.R. 5884.....	Aug. 18 do.	S. Rept. 934. H. Rept. 1282.
Amending the Independent Offices Appropriations Act for fiscal year 1950.	S. 2668.....	Sept. 18	S. Rept. 1201.
Investigation into the United States Atomic Energy Commission.	Oct. 13 Oct. 26	S. Rept. 1169; pt. 2, (minority views).
Retrocede to the State of New Mexico exclusive jurisdiction over lands within the boundaries of Los Alamos, N. Mex., project of the U.S. Atomic Energy Commission.	S. 152.....	Feb. 21	S. Rept. 76

1950 (81ST CONG., 2D SESS.)

To amend the Atomic Energy Act of 1946, sec. 2, AEC Commissioners' salaries.	S. 3437..... H.R. 8103.....	Aug. 30	S. Rept. 2493.
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1951 (82D CONG., 1ST SESS.)

Development and Control of Atomic Energy (report of the Joint Committee on Atomic Energy to the Congress of the United States.)	Oct. 19	S. Rept. 1041.
To amend the Atomic Energy Act of 1946, making it unlawful to possess or transfer any fissionable material except as authorized by the Commission.	S. 2239..... H.R. 5648.....	Oct. 8 do.	S. Rept. 894. H. Rept. 1104.

1952 (82D CONG., 2D SESS.)

Report on Raw Materials by the Joint Committee on Atomic Energy.	July 2	H. Rept. 2449.
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1953 (83D CONG., 1ST SESS.)

To amend sec. 9(b) of the Atomic Energy Act of 1946, re State and local taxation.	S. 671..... H.R. 6669.....	July 28	S. Rept. 694.
To amend the Atomic Energy Act of 1946, as amended, re long-term utility contracts.	S. 2239..... H.R. 4905.....	June 29 June 26	S. Rept. 477. H. Rept. 676.
To amend the Atomic Energy Act, as amended.	S. 2399.....	July 18	S. Rept. 603.

¹ The Joint Committee on Atomic Energy was established by the Atomic Energy Act of 1946 (Public Law 79-585, approved August 1, 1946; see S. 1717, reported on April 19, 1946, by the Senate Special Committee on Atomic Energy (S. Rept. 1211) and on July 10, 1949, by the House Committee on Military Affairs (H. Rept. 2478), and on July 25, 1946, by the committee of conference (H. Conf. Rept. 2670)). The committee was first organized on August 2, 1946, but did not become fully operative until the convening of the 80th Congress in 1947. No reports on legislation were issued by the Joint Committee either in 1946 or 1947.

1954 (83D CONG., 2D SESS.)

Subject	Bill No.	Date	Report No.
Amending the Atomic Energy Act of 1946, as amended, and for other purposes.	S. 3690..... H.R. 9757.....	June 30 July 12 Aug. 6 Aug. 16	S. Rept. 1699. H. Rept. 2181. H. Conf. Rept. 2639. H. Conf. Rept. 2666.
Atomic Weapons Rewards Act of 1954.....	S. 3851..... H.R. 10203.....	Aug. 14 Aug. 16	S. Rept. 2488. H. Rept. 2660.

1955 (84TH CONG., 1ST SESS.)

Atomic Weapons Rewards Act of 1955.....	S. 609..... H.R. 6901.....	June 22 June 23	S. Rept. 622. H. Rept. 901.
To authorize the Atomic Energy Commission to construct a modern office building in or near the District.	S. 1722..... H.R. 5645.....	Apr. 18 Apr. 19	S. Rept. 142. H. Rept. 424.
To authorize appropriations for the Atomic Energy Commission.	S. 2220..... H.R. 6795.....	June 14 do	S. Rept. 538. H. Rept. 787.
To amend sec. 212 of the Merchant Marine Act of 1936 to authorize the construction of a nuclear-powered merchant ship.	S. 2523..... H.R. 7038 ¹	July 30 do July 21, 1956	S. Rept. 1269. H. Rept. 1604. H. Conf. Rept. 2870.
To facilitate the establishment of self-government at the communities of Oak Ridge, Tenn., and Richland, Wash.	S. 2630..... H.R. 7576.....	July 25 do	S. Rept. 1140. H. Rept. 1402.
To authorize the Atomic Energy Commission to pay the salary of a Commissioner during the recess of the Senate, and for other purposes.	S. 2671..... H.R. 7684.....	July 28 do	S. Rept. 1198. H. Rept. 1552.

1956 (84TH CONG., 2D SESS.)

Relating to the compensation of the executive director of the Joint Committee on Atomic Energy.	S.J. Res. 138..... H.J. Res. 514.....	Feb. 6 do	S. Rept. 1470. H. Rept. 1746.
To authorize appropriations for the Atomic Energy Commission for acquisition or condemnation of real property or any facilities.	S. 3673..... H.R. 10387.....	Apr. 18 Apr. 10	S. Rept. 1763. H. Rept. 1993.
To amend the Atomic Energy Community Act of 1955 and for other purposes.	S. 3822..... H.R. 11077.....	July 11 July 12	S. Rept. 2528. H. Rept. 2693.
To amend Public Law 506, 84th Cong., 2d sess., to increase the authorization for appropriations to the Atomic Energy Commission for acquisition of real property.	S. 4288..... H.R. 11709.....	July 26 do	S. Rept. 2808. H. Rept. 2572.
To amend the Atomic Energy Act of 1954, to permit the negotiation of commercial leases at atomic energy communities.	H.R. 11926..... No Senate bill.....	June 29 do	H. Rept. 2431. S. Rept. 2384.
To amend the Atomic Energy Act of 1954, as amended, and for other purposes.	S. 4112..... H.R. 12050.....	June 22 June 29	S. Rept. 2298. H. Rept. 2531.
Providing for a civilian atomic power accelerating program.....	S. 4146..... H.R. 12061.....	do July 5	S. Rept. 2390. H. Rept. 2622.
To amend the Atomic Energy Act of 1954, as amended, to increase the salaries of certain executives of the Atomic Energy Commission.	S. 4162..... H.R. 12094.....	July 3 do	S. Rept. 2404. H. Rept. 2589.
To amend the Atomic Energy Act of 1954, as amended, and for other purposes.	S. 4203..... H.R. 12215.....	July 11 July 12	S. Rept. 2530. H. Rept. 2695.
To promote the common defense and general welfare of the people of the United States by encouraging maximum development of low-cost electric energy.	S. 2643..... H.R. 9743.....	July 11 July 12	S. Rept. 2529. H. Rept. 2694.

1957 (85TH CONG., 1ST SESS.)

To amend the Atomic Energy Act of 1954, and for other purposes, re reactor agreement with West Germany.	H.R. 5866..... S. 1548.....	Mar. 26 Mar. 27	H. Rept. 228. S. Rept. 191.
To amend Public Law 31, 84th Cong., to increase the authorization for the AEC for construction of a modern office building.	H.R. 6978..... S. 1918.....	July 6 June 6	H. Rept. 539. S. Rept. 413.
Amending the Atomic Energy Act of 1954, as amended, providing governmental indemnity and granting limitation of liability to persons in the atomic energy program.	H.R. 7383..... S. 2051.....	May 9 do	H. Rept. 435. S. Rept. 296.
Congressional review of the atomic power program.....	H.R. 7992..... S. 2243.....	June 14 do	H. Rept. 571. S. Rept. 437.
To provide for the appointment of representatives of the United States to the IAEA.	H.R. 8992..... S. 2673.....	July 31 Aug. 19 July 31	H. Rept. 960. H. Conf. Rept. 1200. S. Rept. 778.
To amend the Atomic Energy Act of 1954, as amended, to increase the salaries of certain executives of the Atomic Energy Commission.	H.R. 8994..... S. 2672.....	Aug. 2 do	H. Rept. 977. S. Rept. 790.
To authorize appropriations for the Atomic Energy Commission.	H.R. 8996..... S. 2674.....	do Aug. 20 Aug. 2	H. Rept. 978. H. Conf. Rept. 1204. S. Rept. 791.

¹ This bill was first referred to the Commerce Committee, then referred to the Joint Committee, and finally back to the Commerce Committee.

1958 (85TH CONG., 2D SESS.)

Subject	Bill No.	Date	Report No.
To amend Public Law 85-162 to increase the authorization for appropriations to the Atomic Energy Commission.	H.R. 12009.....	Apr. 22	H. Rept. 1618.
Increasing the authorization for the AEC, to further amend Public Laws 85-162 and 84-141.	S. 3632.....	do.	S. Rept. 1465.
To amend the Atomic Energy Act of 1954, as amended.....	H.R. 12457.....	June 24	H. Rept. 1949.
	S. 3788.....	do.	S. Rept. 1747.
	H.R. 12716.....	June 5	H. Rept. 1849.
	S. 3912.....	June 27	H. Conf. Rept. 2051.
		June 5	S. Rept. 1654.
To authorize appropriations for the AEC.....	H.R. 13121.....	July 2	H. Rept. 2108.
	S. 4051.....	July 22	H. Conf. Rept. 2236.
Amending the Atomic Energy Act of 1954, as amended, re sec. 170.....	H.R. 13455.....	July 2	S. Rept. 1793.
	S. 4164.....	Aug. 13	H. Conf. Rept. 2585.
		July 22	S. Rept. 1862.
To amend the Atomic Energy Act of 1954, as amended.....	H.R. 13456.....	do.	H. Rept. 2253.
	S. 4165.....	do.	S. Rept. 1883.
Do.....	H.R. 13482.....	July 24	H. Rept. 2272.
	S. 4166.....	do.	S. Rept. 1944.
To provide for cooperation with the European Atomic Energy Community.....	H.R. 13749.....	Aug. 15	H. Rept. 2647.
	S. 4273.....	Aug. 14	S. Rept. 2370.
Concurrent resolution to approve agreement with Euratom.....	S. Con. Res. 116.....	do.	S. Rept. 2372.
	H. Con. Res. 376.....	Aug. 15	H. Rept. 2648.

1959 (86TH CONG., 1ST SESS.)

To amend the Atomic Energy Act of 1954, as amended, sec. 251.....	S. 1197.....	Apr. 27	S. Rept. 230.
	H.R. 5104.....	Apr. 29	H. Rept. 327.
Increasing the authorization for appropriations to the Atomic Energy Commission.....	S. 1228.....	Apr. 27	S. Rept. 229.
	H.R. 5105.....	Apr. 29	H. Rept. 328.
To authorize appropriations for the Atomic Energy Commission.....	S. 2094.....	June 11	S. Rept. 386.
	H.R. 7537.....	June 10	H. Rept. 529.
To amend the Atomic Energy Act of 1954, as amended.....	S. 2569.....	Sept. 1	S. Rept. 871.
	H.R. 8754.....	Sept. 2	H. Rept. 1124.
To amend the Atomic Energy Act of 1954, as amended, with respect to cooperation with States.	S. 2468.....	Sept. 1	S. Rept. 870.
	H.R. 8755.....	Sept. 2	H. Rept. 1125.
Atomic energy, United States and Greece.....	H. Con. Res. 245.....	July 15	H. Rept. 657.
Atomic energy, United States and Germany.....	H. Con. Res. 246.....	do.	H. Rept. 658.
Atomic energy, United States and Netherlands.....	H. Con. Res. 247.....	do.	H. Rept. 659.
Atomic energy, United States and Turkey.....	H. Con. Res. 248.....	do.	H. Rept. 660.
Atomic energy, United States and France.....	H. Con. Res. 249.....	do.	H. Rept. 661.
Atomic energy, United States and Great Britain, agreement.....	H. Con. Res. 251.....	do.	H. Rept. 662.
Atomic energy, United States and Canada, agreement.....	H. Con. Res. 254.....	do.	H. Rept. 663.

1960 (86TH CONG., 2D SESS.)

To authorize appropriations for the Atomic Energy Commission.....	S. 3387.....	Apr. 19	S. Rept. 1277.
	H.R. 11713.....	do.	H. Rept. 1525.

1961 (87TH CONG., 1ST SESS.)

To authorize construction of community support facilities at Los Alamos County, N. Mex.	H.R. 7209.....	May 24	H. Rept. 426.
	S. 1941.....	do.	S. Rept. 288.
Authorizing appropriations for the Atomic Energy Commission.....	H.R. 7576.....	June 21	H. Rept. 562.
	S. 2043.....	Aug. 31	Conf. Rept. 1101.
		June 21	S. Rept. 441.
To amend the Atomic Energy Act of 1954, as amended, and the Euratom Cooperation Act of 1958, and for other purposes.	H.R. 8599.....	Aug. 16	H. Rept. 963.
	S. 2391.....	do.	S. Rept. 746.

1962 (87TH CONG., 2D SESS.)

Authorizing appropriations for the Atomic Energy Commission.....	H.R. 11974.....	June 21	H. Rept. 1871.
	S. 3392.....	Sept. 11	H. Conf. Rept. 2342.
		June 29	S. Rept. 1671.
Amending the Atomic Energy Act of 1954, as amended, and for other purposes.	H.R. 12336.....	July 5	H. Rept. 1966.
	S. 3491.....	do.	S. Rept. 1677.
Disposal of the Los Alamos community.....	H.R. 12718.....	Aug. 1	H. Rept. 2113.
	S. 3580.....	do.	S. Rept. 1792.

¹ Reported adversely.

1963 (88TH CONG., 1ST SESS.)

Subject	Bill No.	Date	Report No.
To authorize appropriations for the Atomic Energy Commission...	S. 1745.....	June 24	S. Rept. 303.
	H.R. 7139.....	do	H. Rept. 445.
Supplemental authorization of appropriations for the Atomic Energy Commission for fiscal year 1964, to amend Public Law 88-72.	S. 2267.....	Nov. 20	S. Rept. 647.
	H.R. 8971.....	do	H. Rept. 911.

1964 (88TH CONG., 2D SESS.)

To amend the Atomic Energy Act of 1954, sec. 202.....	S. 2448.....	Feb. 25	S. Rept. 877.
	H.R. 9711.....	do	H. Rept. 1151.
To authorize appropriations for the Atomic Energy Commission...	S. 2755.....	Apr. 21	S. Rept. 987.
	H.R. 10945.....	do	H. Rept. 1332.
To amend the Atomic Energy Act of 1954, as amended, the Atomic Energy Community Act of 1955, as amended, and the Euratom Cooperation Act of 1958, as amended.	S. 2963.....	June 30	S. Rept. 1128.
	H.R. 11832.....	do	H. Rept. 1525.
Amending the Atomic Energy Act of 1954, to provide for private ownership of special nuclear materials.	S. 3075.....	Aug. 5	S. Rept. 1325.
	H.R. 12228.....	do	H. Rept. 1702.

1965 (89TH CONG., 1ST SESS.)

To authorize appropriations to the Atomic Energy Commission...	H.R. 8122.....	May 13	H. Rept. 349.
	S. 1957.....	May 14	S. Rept. 191.
To amend sec. 170 of the Atomic Energy Act of 1954, as amended...	H.R. 8496.....	Aug. 26	H. Rept. 883.
	S. 2042.....	do	S. Rept. 650.
To amend sec. 271 of the Atomic Energy Act of 1954, as amended...	H.R. 8856.....	June 30	H. Rept. 567.
	S. 2103.....	do	S. Rept. 390.

1966 (89TH CONG., 2D SESS.)

To authorize appropriations to the Atomic Energy Commission...	H.R. 14732.....	May 3	H. Rept. 1471.
	S. 3293.....	do	S. Rept. 1142.
To amend Public Law 89-428 to authorize the Atomic Energy Commission to enter into a cooperative arrangement for large-scale nuclear-desalting project.	H.R. 17558.....	Sept. 28	H. Rept. 2145.
	S. 3807.....	do	S. Rept. 1662.
To amend the Atomic Energy Act of 1954, as amended.....	H.R. 17685.....	Sept. 14	H. Rept. 2043.
	S. 3830.....	Sept. 16	S. Rept. 1605.
Nonproliferation of nuclear weapons.....	S. Res. 179.....	May 11	S. Rept. 1141.

1967 (90TH CONG., 1ST SESS.)

To authorize appropriations to the Atomic Energy Commission...	H.R. 10918.....	June 19	H. Rept. 369.
	S. 1963.....	June 23	S. Rept. 349.
To amend the Atomic Energy Community Act of 1955, as amended, the Atomic Energy Act of 1954, as amended, and the Euratom Cooperation Act of 1958, as amended	H.R. 13934.....	Nov. 9	H. Rept. 911.
	S. 2644.....	Nov. 13	S. Rept. 743.

1968 (90TH CONG., 2D SESS.)

To authorize appropriations to the Atomic Energy Commission...	H.R. 16324.....	Apr. 2	H. Rept. 1266.
	S. 3262.....	Apr. 3	S. Rept. 1074.

1969 (91ST CONG., 1ST SESS.)

To authorize appropriations to the Atomic Energy Commission...	H.R. 12167.....	June 16	H. Rept. 315.
	S. 2416.....	June 18	S. Rept. 244.
To amend the Atomic Energy Act of 1954, as amended.....	H.R. 14925.....	Nov. 24	H. Rept. 691.
	S. 3169.....	do	S. Rept. 553.

X. REPORTS ON AGREEMENTS FOR COOPERATION

Subject	Date	Report number
84th Cong., 1st sess.: Report of the proposed agreement for cooperation with NATO for co- operation regarding atomic information.	May 4, 1955.....	S. Rept. 267.
Proposed agreements for cooperation between the Turkish Republic and the United States, the United States of Brazil and the United States, and the Republic of Colombia and the United States.	June 17, 1955.....	S. Rept. 572.
Proposed agreements for cooperation concerning the civil uses of atomic energy between the Government of the United States of America and the Government of Belgium; the Government of the United States of America and the Government of Canada; and the Government of the United States of America and the Government of the United Kingdom of Great Britain and Northern Ireland.	July 20, 1955.....	S. Rept. 1051.
Report on the proposed agreements for cooperation regarding atomic information for mutual defense purposes between the Government of the United States of America and the Government of Canada and the Govern- ment of the United States of America and the Government of the United Kingdom and Northern Ireland.	July 20, 1955.....	S. Rept. 1052.
Proposed agreements for cooperation between the United States and Argentina, Chile, China, Denmark, Greece, Israel, Italy, Japan, Korea, Lebanon, Netherlands, Pakistan, Peru, Philippines, Portugal, Spain, Sweden, Switzerland, Uruguay, and Venezuela.	July 28, 1955.....	S. Rept. 1197.
85th Cong., 2d sess.: Proposed agreement for cooperation between the Government of the United States of America and the Government of the United Kingdom of Great Britain and Northern Ireland for the cooperation on the uses of atomic energy for mutual defense purposes.	July 29, 1958.....	S. Rept. 2041.
Proposed agreement for cooperation between the Government of the United States of America and the Government of the United Kingdom of Great Britain and Northern Ireland for the cooperation on the uses of atomic energy for mutual defense purposes.	July 29, 1958.....	H. Rept. 2299.
86th Cong., 1st sess.: Proposed amendment to agreement for cooperation with the United Kingdom of Great Britain and proposed agreements for cooperation with the Republic of France, Canada, Turkey, the Netherlands, the Federal Republic of Germany and Greece on the uses of atomic energy for mutual defense purposes.	July 14, 1959.....	S. Rept. 513.
Proposed amendment to agreement for cooperation with the United Kingdom of Great Britain and proposed agreements for cooperation with the Republic of France, Canada, Turkey, the Netherlands, the Federal Republic of Germany, and Greece on the uses of atomic energy for mutual defense purposes.	July 15, 1959.....	H. Rept. 672.
87th Cong., 1st sess.: Proposed agreement for cooperation for mutual defense purposes be- tween the Government of the United States and the Government of Italy.	Mar. 15, 1961.....	S. Rept. 71.
Proposed agreement for cooperation for mutual defense purposes be- tween the Government of the United States and the Government of Italy.	Mar. 15, 1961.....	H. Rept. 167.
Proposed agreement for cooperation between the Government of the United States of America and the Government of the French Republic.	Sept. 14, 1961.....	S. Rept. 1035.
Proposed agreement for cooperation between the Government of the United States of America and the Government of the French Republic.	Sept. 14, 1961.....	H. Rept. 1183.
87th Cong., 2d sess.: Proposed agreement for cooperation for mutual defense purposes between the Government of the United States and the Government of Belgium.	June 29, 1962.....	S. Rept. 1670.
Proposed agreement for cooperation for mutual defense purposes between the Government of the United States and the Government of Belgium.	June 29, 1962.....	H. Rept. 1956.
88th Cong., 2d sess.: Proposed agreement for cooperation regarding the exchange of atomic information between the Government of the United States of America and the North Atlantic Treaty Organization and its member nations.	Sept. 22, 1964.....	S. Rept. 1592.
Proposed agreement for cooperation regarding the exchange of atomic information between the Government of the United States of America and the North Atlantic Treaty Organization and its member nations.	Sept. 17, 1964.....	H. Rept. 1890.

XI. AEC REPORT COLLECTIONS AND FILM LIBRARIES

A. REPORT COLLECTIONS

Collections of AEC reports and publications of the Joint Committee are maintained in the libraries of the organizations listed below for reference use by the general public. Facilities for making photocopies are available. The AEC also makes available through these libraries atomic energy reports of countries other than the United States that are abstracted in *Nuclear Science Abstracts*.

In addition, there are two Government depository libraries in each Congressional District where Joint Committee on Atomic Energy publications may be found. Those libraries are listed in a Committee print entitled "Government Depository Libraries" published by the Joint Committee on Printing, Congress of the United States, revised February 1970.

U.S. REPORT COLLECTIONS

ALABAMA Auburn, Auburn University	MASSACHUSETTS Cambridge, Massachusetts Institute of Technology
ALASKA College, University of Alaska	MICHIGAN Ann Arbor, University of Michigan
ARIZONA Tucson, University of Arizona	MISSISSIPPI State College, Mississippi State University
ARKANSAS Fayetteville, University of Arkansas	MISSOURI Kansas City, Linda Hall Library
CALIFORNIA Davis, University of California Los Angeles, University of California Stanford, Stanford University	NEVADA Las Vegas, Nevada Southern University Reno, University of Nevada
COLORADO Boulder, University of Colorado Denver, Public Library	NEW JERSEY Princeton, Princeton University Teaneck, Fairleigh Dickinson University
CONNECTICUT New Haven, Yale University	NEW MEXICO Albuquerque, University of New Mexico
DELAWARE Newark, University of Delaware	NEW YORK Albany, University of the State of New York Buffalo, State University of New York at Buffalo Ithaca, Cornell University New York, Atomic Industrial Forum, Inc. Rochester, University of Rochester Syracuse, Syracuse University
DISTRICT OF COLUMBIA Washington, Library of Congress	NORTH CAROLINA Raleigh, North Carolina State College
FLORIDA Gainesville, University of Florida	OHIO Cincinnati, University of Cincinnati Columbus, Ohio State University Toledo, University of Toledo
GEORGIA Atlanta, Georgia Institute of Technology	OKLAHOMA Norman, University of Oklahoma
HAWAII Honolulu, University of Hawaii	OREGON Corvallis, Oregon State University
ILLINOIS Evanston, Northwestern University Urbana, University of Illinois	
INDIANA Lafayette, Purdue University	
IOWA Ames, Iowa State University	
KANSAS Manhattan, Kansas State University	
KENTUCKY Lexington, University of Kentucky Louisville, University of Louisville	
LOUISIANA New Orleans, Tulane University	
MARYLAND Baltimore, Johns Hopkins University	

U.S. REPORT COLLECTIONS—Continued

PENNSYLVANIA	TEXAS
Philadelphia, University of Pennsylvania	Austin, University of Texas
Pittsburgh, Carnegie Library	College Station, Texas A&M University
University Park, Pennsylvania State University	Houston, Rice University
	Lubbock, Texas Technological College
PUERTO RICO	UTAH
Rio Piedras, University of Puerto Rico	Salt Lake City, University of Utah
SOUTH CAROLINA	VIRGINIA
Columbia, University of South Carolina	Blacksburg, Virginia Polytechnic Institute
	Charlottesville, University of Virginia
TENNESSEE	WASHINGTON
Knoxville, University of Tennessee	Pullman, Washington State University
Nashville, Joint University Libraries	Seattle University of Washington
Oak Ridge, Oak Ridge Associated Universities	WEST VIRGINIA
	Morgantown, West Virginia University
	WYOMING
	Laramie, University of Wyoming

COLLECTIONS IN FOREIGN COUNTRIES

ARGENTINA	KOREA
Buenos Aires, Comisión Nacional de Energía Atómica	Seoul, Office of Atomic Energy
AUSTRIA	MEXICO
Vienna, Zentral Bibliothek der Physikalischen Institute der Universität	Mexico, D.F., Comisión Nacional de Energía Nuclear
BRAZIL	NETHERLANDS
Rio de Janeiro, Instituto Brasileiro de Bibliografia e Documentação	The Hague, Reactor Centrum Nederland
CHINA	NORWAY
Hsinchu, Taiwan, Free China, National Tsing Hua University	Lilleström, Institutt för Atomenergi
DENMARK	PERU
Risø, Danish Atomic Energy Commission	Lima, Junta de Control de Energía Atómica
FINLAND	PHILIPPINE REPUBLIC
Helsinki, Teknillisen Korkeakoulun Kirjasto	Manila, Philippine Atomic Energy Commission
FRANCE	REPUBLIC OF SOUTH AFRICA
Gif-sur-Yvette, Centre d'Etudes Nucleaires de Saclay	Pretoria, Atomic Energy Board Library
GERMANY	SPAIN
Frankfurt/Main, Gmelin-Institute	Madrid, Junta de Energía Nuclear, Biblioteca Documentación y Publicaciones, Ciudad Universitaria
INDIA	SWEDEN
Bombay, Department of Atomic Energy	Nyköping, Aktiebolaget Atomenergi
IRAN	SWITZERLAND
Tehran, Tehran University Nuclear Centre	Zürich, Eidgenössische Technische Hochschule, Bibliothek
IRELAND	THAILAND
Dublin, University College	Bangkok, Office of the Thai Atomic Energy Commission, Department of Science
ISRAEL	TURKEY
Yavne, Israel Atomic Energy Commission	Ankara, Turkish Atomic Energy Commission, Atomic Energy Library
ITALY	UNITED KINGDOM
Rome, Centro di Studi Nucleari della Casaccia	London, National Reference Library
JAPAN	
Tokyo, National Diet Library	

COLLECTIONS IN INTERNATIONAL AGENCIES

AUSTRIA

Vienna, International Atomic Energy Agency

BELGIUM

Brussels, La Bibliotheque EURATOM

B. FILM LIBRARIES

Film libraries are located at the following AEC offices and cover requests from the following States:

Washington, D.C.-----	Maryland, Virginia, West Virginia, District of Columbia, Delaware, and Canada.
New York, N.Y.-----	New York, Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island, Pennsylvania and New Jersey.
Aiken, S.C.-----	Alabama, Florida, North Carolina, South Carolina and Georgia.
Idaho Falls, Idaho-----	Montana, Utah and Idaho.
Berkeley, Calif-----	California, Hawaii and Nevada.
Grand Junction, Colo-----	Colorado, Wyoming, Kansas and Nebraska.
Argonne, Ill-----	North Dakota, South Dakota, Missouri, Iowa, Ohio, Indiana, Michigan, Minnesota, Wisconsin and Illinois.
Oak Ridge, Tenn-----	Kentucky, Mississippi, Arkansas, Louisiana and Tennessee.
Albuquerque, N. Mex-----	Arizona, New Mexico, Texas and Oklahoma.
Richland, Wash-----	Washington, Oregon and Alaska.

Also, the AEC maintains four film libraries overseas, at its liaison offices at the American embassies in Tokyo, Brussels, London, Buenos Aires, and the U.S. Information Service Post at Stockholm, Sweden. Inquiries may be directed to the AEC office at the Embassy.

Many AEC films are also available in the film library of the International Atomic Energy Agency, Vienna; the American Film Library, The Hague, Holland; The National Science Film Library, Ottawa, Canada, and the library at the Puerto Rico Nuclear Center, Rio Piedras, P.R.

XII. ACTIVITIES AND ACCOMPLISHMENTS OF THE JOINT COMMITTEE ON ATOMIC ENERGY IN THE 91ST CONGRESS, FIRST SESSION (1969)

FOREWORD

It has been the practice of the Joint Committee on Atomic Energy at the close of each session of the Congress to submit for the information of the Congress, the executive branch and the public a report of its activities. (The report for the second session of the 90th Congress was printed in the Congressional Record of October 11, 1968, S-12585).

The Joint Committee on Atomic Energy was organized on August 2, 1946. It consists of nine Members from the Senate and nine Members from the House of Representatives. No more than five from each body can be members of the same political party. The chairmanship alternates between the Senate and the House of Representatives with each Congress.

Present membership is:

Chet Holifield, California, *Chairman*

John O. Pastore, Rhode Island, *Vice Chairman*

Melvin Price, Illinois
Wayne N. Aspinall, Colorado
John Young, Texas
Ed Edmondson, Oklahoma
Craig Hosmer, California
John B. Anderson, Illinois
William M. McCulloch, Ohio
Catherine May, Washington

Richard B. Russell, Georgia
Clinton P. Anderson, New Mexico
Albert Gore, Tennessee
Henry M. Jackson, Washington
George D. Aiken, Vermont
Wallace F. Bennett, Utah
Carl T. Curtis, Nebraska
Norris Cotton, New Hampshire

Congressman William H. Bates of Massachusetts, a most esteemed and valued member of the committee since January 19, 1959, died on June 22. Representative Catherine May of Washington was appointed on July 24, 1969, to fill the vacancy created by his death.

The Joint Committee is one of the few committees established by statute, rather than by rule of each House and is unique in several respects. For example, it is the only Joint Committee of the Congress with legislative functions, including the receipt and reporting of legislative proposals. The committee is also charged by law with legislative responsibility as "watchdog" of the U.S. atomic energy program. As part of its responsibilities, the committee follows closely the classified activities of the executive agencies, including the Atomic Energy Commission and the Departments of Defense and State, concerning the peaceful and military applications of atomic energy.

In all these activities, the Joint Committee on Atomic Energy, representing the Congress and the public, seeks to assure the implementation of the following statutory policy expressed in the Atomic Energy Act of 1954:

* * * the development, use, and control of atomic energy shall be directed so as to make the maximum contribution to the general welfare, subject at all times to the paramount objective of making the maximum contribution to the common defense and security * * *.

During the 91st Congress, first session, the Joint Committee met on a total of 52 different occasions, 38 of which were public and 14 of which were executive meetings.

A total of 17 publications consisting of hearings, reports, and committee prints were published by the Joint Committee in its first session of the 91st Congress. These publications include testimony taken in executive session with classified material deleted before printing.

A list of the publications follows:

1969 (91st Cong., 1st Sess.)

AEC Authorizing Legislation, Fiscal Year 1970:

Part 1----- Hearings Apr. 17 and 18.
Part 2----- Hearings Apr. 24 and 25.
Part 3----- Hearings Apr. 29 and 30.
Report (H. Rept. 91-315; S. Rept. June 17 and 18.
91-244).

AEC Omnibus Legislation 1969:

Hearings----- Sept. 12.
Report (H. Rept. 91-691; S. Rept. Nov. 24.
91-553).

Atomic Energy Legislation through the Committee Print, December.
91st Congress, 1st session.

Current membership of the Joint Com- Committee Print, March.
mittee on Atomic Energy.

Selected materials on environmental effects Committee Print, August.
of producing electric power.

Environmental effects of producing electric Hearings Oct. 28, 29, 30, and 31,
power. Nov. 4, 5, 6, and 7.

Selected materials concerning the future Committee Print, June.
ownership of AEC's gaseous diffusion
plants.

Future ownership of gaseous diffusion Hearings July 8 and 9, Aug. 5, 7, and 8.
plants.

LaCrosse boiling water reactor project--- Hearing May 4, 1967.

Naval nuclear propulsion program 1969--- Hearing Apr. 23.

Nuclear explosion services for industrial Hearings May 8, 9, and July 17.
applications.

Prelicensing antitrust review of nuclear Hearings Nov. 18, 19, and 20.
powerplants.

Radiation standards for uranium mining-- Hearings Mar. 17 and 18.

I. LEGISLATIVE ACTIVITIES

A. Atomic Energy Commission fiscal year 1970 Authorization Act
(Public Law 91-44)

The review by the Joint Committee of the Atomic Energy Commission's request for authorization of appropriations for fiscal year 1970 was delayed until the incoming Nixon administration had submitted its budget. The Johnson administration budget submission was made January 15 and the Nixon revised budget was submitted April 15. The Joint Committee convened its hearings on the AEC request on April 17 to consider the proposed authorization bill (H.R. 10130, S. 1884) and held 14 sessions during the succeeding 8 weeks. Two hearings, to consider the nuclear weapons and naval propulsion programs, were held in executive session because a review of classified

data was involved. The record of the public hearings was published in three volumes entitled "AEC Authorizing Legislation, Fiscal Year 1970". A declassified record of the hearing on naval reactors was published under the title "Naval Nuclear Propulsion Program—1969."

Following its deliberations on the proposed measures, the Joint Committee voted to file "clean bills." On June 16, Representatives Holifield, Price, and Hosmer introduced H.R. 12167 and Senator Pastore introduced S. 2416. These measures were favorably reported on June 17 (H. Rept. 91-315) and June 18 (S. Rept. 91-244) respectively.

The reported authorization bill, which recommended an increase in authorization of appropriations of \$6.232 million over the administration's revised request, passed the House without amendment on June 24. The Senate passed the bill on June 26 after amending it by reducing the total authorization to the level of the administration's request. On July 1, the House acceded to the amendment and passed the bill as amended by the Senate. On July 11 the President signed the act into law (Public Law 91-44). The law authorizes appropriations to the Atomic Energy Commission for fiscal year 1970 in the amount of \$2,448,052,000 as follows:

Operating expenses.....	\$1, 967, 050, 000
Plant and capital equipment.....	481, 002, 000
Total authorization.....	2, 448, 052, 000

Among the highlights of the Joint Committee report, which accompanied the authorization bill, were the following:

The committee expressed its continuing concern about the *Naval Nuclear Propulsion Program* and restored to that program \$4 million which had been cut during the administration's budget review process. The committee set out the facts as to advances by the Soviet Union in the improvement of their submarine capability and urged support of a vigorous research and development effort to assure technological superiority in the face of Soviet numerical supremacy. The committee also expressed strong support for a nuclear surface warship development and construction program.

In the field of *reactor development and technology*, the committee increased requested funds by \$7.3 million for *civilian power reactors* and \$3 million for the *cooperative power reactor demonstration program*. The former evidenced the committee's support of alternate reactor concepts—high temperature gas-cooled reactor (HTGR), gas-cooled fast reactor (GCFR), and molten salt reactor (MSR)—while the latter indicated the view of the committee that the project definition phase of the liquid metal fast breeder reactor (LMFBR) program should proceed with the necessary involvement of several participants employing various approaches.

The *Plowshare program* received the largest monetary boost from the committee with the addition of \$10.5 million to the requested funds. The committee made clear its dissatisfaction with the funding level of this program over the past 5 years. In the view of the committee the promise for domestic commercial applications and the international obligations embodied in the Nonproliferation Treaty demand substantially increased financial support. The committee

believes the potential of this technology for improving natural gas and other mineral resource reserves cannot be realized without an efficient and adequately funded research and development program.

B. Legislation requiring preclicensing review of competitive and environmental effects of nuclear powerplants (S. 212, H.R. 8289, H.R. 9647, S. 1883, S. 2768)

On November 18-20, the Joint Committee held hearings on legislation (S. 212, H.R. 8289, H.R. 9647, S. 1883, and S. 2768) relating to the preclicensing review of nuclear powerplants from the standpoint of their competitive and environmental effects. The principal bills involved are commonly referred to as "Practical Value" legislation, inasmuch as they would abolish the present provision under the Atomic Energy Act requiring the preclicensing antitrust review of only those types of nuclear powerplants determined by the AEC to have achieved "practical value." As a result of this legislation, all or virtually all nuclear powerplants would be subject to such preclicensing review.

The first phase of hearings featured testimony by representatives of Government agencies with an interest in the legislation. Testimony was received from officials of the Departments of Justice and the Interior, the Atomic Energy Commission, and the Office of Science and Technology. At the conclusion of the hearings on November 20, it was announced that due to the heavy floor schedule in both Houses of Congress and the end-of-the-session workload of the Joint Committee, the committee would not be able to hear the testimony of private industry, special interest groups, and the general public on these measures prior to the close of this session of Congress. It is expected that such hearings will be scheduled relatively early in the next session of Congress.

The record of the first phase of these hearings is being prepared for publication and distribution to the public prior to scheduling the second phase of the hearings. The printed record will appear under the title "Preclicensing Antitrust Review of Nuclear Powerplants."

C. Legislation to authorize industrial Plowshare services (H.R. 477, S. 1885, H.R. 10288)

On May 8 and 9 and July 17 the Joint Committee held hearings on H.R. 477, S. 1885, and H.R. 10288, bills which would authorize the AEC to make peaceful nuclear explosion service available on a commercial basis, both domestically and abroad, as various applications of nuclear explosive devices for peaceful purposes achieve commercial feasibility. H.R. 477 was introduced on January 3, 1969, by Representative Hosmer for himself and Representatives Holifield, Price of Illinois, Aspinall, Young, Bates, Anderson of Illinois, and McCulloch. S. 1885, an identical bill, was introduced on April 18, 1969 by Senator Pastore, for himself and Senators Anderson and Bennett. A third bill, also identical, was introduced on April 21, 1969, by Representative Edmondson.

During the May 8 and 9 hearings, the Joint Committee heard testimony on this legislation by representatives of Government agencies with interests and responsibilities in connection with domestic and foreign Plowshare applications. Witnesses who testified represented the AEC, the Departments of the Interior, State, and Health,

Education, and Welfare, and the Arms Control and Disarmament Agency. All generally supported enactment of the legislation.

Subsequently, on July 17, the committee heard the views of non-Government witnesses who expressed an interest in testifying on the legislation. Representatives of the Atomic Industrial Forum, the International Nuclear Corp., the CER Geonuclear Corp. and El Paso Natural Gas Co. testified in support of the legislation.

The record of these hearings was published in December 1969 under the title "Nuclear Explosion Services for Industrial Applications." It is expected that the Joint Committee will convene during the second session of the 91st Congress to consider reporting this legislation, possibly with certain modifications suggested on the basis of the committee's extensive hearings. Hearings on similar legislation in the 90th Congress, on which no final action was taken by the committee, was published in 1968 under the title, "Commercial Plowshare Services."

D. 1969 omnibus legislation

On September 12, the Joint Committee held a hearing to consider a number of bills to amend various provisions of the Atomic Energy Act. Those bills were—

H.R. 9644 and H.R. 9648 introduced by Chairman Holifield (by request) on March 27 and their companions S. 1879 and S. 1882 introduced by Vice Chairman Pastore (by request) on April 18;

S. 1878 introduced by Senator Pastore on April 18; and

H.R. 12697 introduced on July 9 by Chairman Holifield (by request) for himself and Representative Price of Illinois.

The committee met in executive sessions on September 12 and November 18 on these measures and voted to file "clean bills." H.R. 14925 was introduced on November 20 by Chairman Holifield (for himself, Representative Price of Illinois, and Representative Hosmer) and S. 3169 was introduced on November 21 by Vice Chairman Pastore. On November 24, the committee voted to report those bills and reports (H. Rept. 91-691 and S. Rept. 91-553) were filed on that date. The bill passed the Senate without amendment on December 1. The House approved the bill on December 15. On December 24 the President signed the measure as P.L. 91-161.

The act fundamentally accomplishes four amendments to the Atomic Energy Act of 1954, plus technical amendments to assure consistency and clarity in that act. The principal amendments would—

1. Extend for an additional 5-year period (to September 1, 1974) the authority of the AEC to compel licensing of patents found "affected with the public interest" in accordance with applicable requirements of the Atomic Energy Act.

2. Increase, from 5 to 10 years, the maximum term of imprisonment for unauthorized diversion of special nuclear materials and related offenses.

3. Remove from four sections of the act, pertaining to penalties for crimes committed with intent to injure the United States or to secure an advantage to a foreign nation, the authority to impose the death penalty and the language which restricts the imposition of imprisonment for life to those cases wherein the

jury so recommends. Such restrictive language has been found by the U.S. Supreme Court to be unconstitutional in both the Federal Kidnaping Act and the Federal Bank Robbery Act.

4. Provide authority for the AEC to impose civil monetary penalties for violation of the licensing provisions of the Atomic Energy Act or any rule, regulation, order, or license issued thereunder. The amount of the penalty is limited to \$5,000 for any single violation and \$25,000 for all violations occurring within any period of 30 consecutive days.

II. AGREEMENTS FOR COOPERATION

A. *Civil*

Under the provisions of the Atomic Energy Act of 1954, as amended, proposed agreements for cooperation in the peaceful uses of nuclear energy between the United States and other nations must be submitted to the Joint Committee and a period of 30 days must elapse while Congress is in session before such agreements become effective. In accordance with such procedures, five civil agreements, with the approval of the President were submitted to the committee by the Department of State and the Atomic Energy Commission during 1969.

Two of the submitted agreements were for research activities only. One effected amendments to the existing agreement with Iran and the other superseded the agreement with Portugal. The remaining agreements included power production activities as well as research functions. Of these, the agreement with Venezuela was to be amended while the agreements with Argentina and Austria were superseded. All of the new agreements reflected the updated provisions for private ownership of special nuclear materials provided in the 1964 legislation as well as application of safeguards inspection procedures by the International Atomic Energy Agency (IAEA) to assure that material is not diverted to other than peaceful purposes.

In addition, the U.S.-IAEA bilateral agreement for Application of Safeguards to U.S. Reactor Facilities was extended by mutual agreement, for a 6-month period to expire on January 31, 1970. That program assists the international agency in developing and improving its safeguards competence.

B. *Military*

Under the Atomic Energy Act of 1954, as amended, proposed agreements for cooperation with another nation or with a regional defense organization involving development, utilization, and control of atomic energy for military purposes in the interest of mutual defense and security, are required to be submitted to the Joint Committee for a period of 60 days while Congress is in session before becoming effective.

On March 10 the committee held hearings in executive session on an amendment to the agreement between the United States and the United Kingdom for cooperation on the uses of atomic energy for mutual defense purposes of July 3, 1958.

The amendment which would provide for the transfer of nuclear fuel for the United Kingdom's submarine program prior to December 31, 1979, was submitted to Congress just prior to adjournment in November 1968.

The representatives of the Atomic Energy Commission and the State Department agreed to make arrangements with the United

Kingdom to insure that the negotiating record with the United Kingdom indicates that the uses that may be made by the United Kingdom of the materials to be furnished by the United States are clearly understood. This has been accomplished.

The 60 days ended March 13, 1969, and the amendment became effective on March 28, 1969.

III. INFORMATIONAL HEARINGS

A. *Environmental effects of producing electric power*

On October 28, 29, 30, and 31 and November 4, 5, 6, and 7, the Joint Committee held phase I of its public hearings on the environmental effects of producing electric power from all types of electric powerplants. During this phase testimony was received from the Federal agencies and organizations having responsibility in these matters, namely: Science Advisor to the President, the Federal Power Commission, the Atomic Energy Commission, the Department of the Interior, the Department of Health, Education, and Welfare, the Federal Radiation Council, and the Department of Agriculture.

Information was received with respect to the policies of the executive departments on matters of air and water pollution, thermal effects, adequacy of radiation criteria and standards and related matters. The Joint Committee print of this hearing record, entitled "Environmental Effects of Producing Electrical Power, Part I", to be published in early January 1970, will contain a compendium of information on chemical effluents, thermal discharges, and radioactive liquid, and gaseous releases from conventional and nuclear powerplants, which is without parallel.

Phase II of these hearings is scheduled to be conducted early in 1970 and will afford an opportunity for representatives of State governments, private industry, environmental groups, and the public-at-large to present testimony furnishing their own views as well as commenting upon those already presented by the Government agencies during phase I of the hearings.

B. *Radiation standards for uranium mining*

On March 17 and 18 the Joint Committee's Subcommittee on Research, Development, and Radiation held hearings on the subject of radiation standards for uranium mining. The committee looked into the requirements that the uranium mining industries would be expected to meet, the epidemiological studies forming the basis for the radiation standards, and the reasons for delay in Federal Radiation Council action toward arriving at a standard. Subsequent to these hearings the Secretary of Health, Education, and Welfare appointed a special review committee to perform a continuing review of the situation regarding uranium mining standards. In addition, the Secretary of Labor, after meeting with representatives of uranium mining companies, developed a revised guideline for the processing of "variation requests."

C. *Future ownership of the AEC's gaseous diffusion plants*

During extended hearings which began on July 8 and 9 and continued on August 5, 7, and 8, the Joint Committee considered the question of future ownership and operation of the AEC's uranium en-

richment facilities. These plants are presently the only available means for the provision of uranium enrichment services required by the rapidly expanding U.S. private nuclear-power industry, and constitute the one significant link in the nuclear fuel cycle remaining under Government ownership and operation. The production facilities, which are located at Oak Ridge, Tenn.; Paducah, Ky.; and Portsmouth, Ohio, represent a Government investment of approximately \$2.3 billion.

Witnesses who testified during these hearings represented the Atomic Energy Commission, the General Accounting Office, American Public Power Association, Atomic Industrial Forum, Consolidated Edison Co. of New York, Consolidated Enrichment Corp., Edison Electric Institute, National Coal Association, National Rural Electric Cooperative Association, and the Tennessee Valley Authority. Mr. Philip Sporn, testifying on his own behalf, also appeared as a witness. The record of these hearings was published in December under the title "Future Ownership of the AEC's Gaseous Diffusion Plants."

Testimony during these hearings indicated a diversity of views as to whether the plants should be transferred to private purchasers, a Government corporation, or some other form of ownership, or should remain with the AEC. There were also varying views as to the timing of any such transfer.

Subsequent to the hearings and after consultation between White House officials and members of the Joint Committee, President Nixon announced on November 10 that he was requesting the AEC to continue to operate the enrichment plants, but under a separate directorate within AEC. The President expressed the view that the Federal Government's responsibility for uranium enrichment should eventually be ended; however, AEC operation of the enrichment facilities should continue until such time as "various national interests" would best be served by the sale of the facilities to the private sector. In the interim, the President said, the AEC is to "carry on the AEC's businesslike management of plant operations and establish separate accounts fully reflecting commercial criteria for financial accounting."

On November 10, shortly after the President's announcement, the Chairman of the Joint Committee issued a statement in which he generally applauded the President's plan to retain the plants under Government ownership until the day arrives—"assuming the day does arrive," he added—that they can be sold to industry "under circumstances that fully protect the public interest. . . ." Chairman Holifield expressed disappointment that the Presidential announcement set forth no specific plans to fund needed improvements to the enrichment plants. In this regard, Representative Holifield said:

President Nixon has not yet faced up to the urgent need for starting construction for plant improvements needed to provide the additional enrichment capacity to fuel the nuclear plants which will come on line in the late 1970's.

Reliance on present enrichment service sales without a definite commitment on the part of the Administration to support an appropriation of at least \$130 million in the fiscal 1971 budget introduces an element of uncertainty which I fear will affect new acquisition of nuclear plants by electric utilities. If the Administration decides it cannot make such a budgetary commitment in the near future, I think it should advocate a self-funding Government corporation, so that assurance of funding can be arranged without further delay.¹

¹ The full texts of the President's, AEC and the Joint Committee's November 10 announcements are printed on pages H 11161-H 11163 of the November 19, 1969 Congressional Record.

In light of the Presidential announcement, the AEC is now re-examining its enrichment service charges to determine whether any change in pricing policies is required as a result of the proposed new operating procedures. In view of the potentially critical importance of this matter to the entire nuclear industry, the chairman of the committee has requested that the AEC submit the results of its review to the committee immediately upon completion, and keep the committee fully and currently informed of all significant interim developments in this connection.

D. The antiballistic missile program

On March 4, the Joint Committee held two hearings in executive session on ABM. Representatives of the Department of Defense and of the Atomic Energy Commission presented testimony concerning aspects of the U.S. ballistic missile defense program including concept, capability, reliability, vulnerability, and command and control functions.

In early 1968 the Joint Committee announced that it had asked the General Accounting Office to maintain a surveillance of the actions being taken in connection with the proposed ABM system. The committee has requested the GAO to continue such a review and analysis of this important program.

On August 6, 1969, the Senate defeated by a vote of 51-49 an antideployment amendment concerning the Safeguard ABM system, and on December 8 the House voted to appropriate funds for initial deployment.

E. Safeguards under limited test ban treaty

The Joint Committee has continued to maintain a careful scrutiny of the Department of Defense and the Atomic Energy Commission activities in support of the four safeguards established in connection with the Limited Nuclear Test Ban Treaty.

In 1963 during the debate on the Limited Nuclear Test Ban Treaty the Senate was assured by the executive department that our national security would not be jeopardized if the treaty were signed because four "safeguards" were being instituted to insure that the United States would not be taken by surprise if the terms of the treaty were violated. These safeguards are—

- (1) the conduct of a comprehensive aggressive underground nuclear weapons testing program;
- (2) the maintenance of modern nuclear weapons laboratories;
- (3) the maintenance of the necessary personnel and facilities to resume atmospheric testing on short notice in the event of an abrogation of the treaty by the Soviet Union; and
- (4) the improvement of our capability to monitor the terms of the treaty, to detect violations and to maintain our knowledge of Sino-Soviet nuclear activities.

During the AEC fiscal year 1970 authorization hearings on April 17, the Chairman of the AEC stated:

The fiscal year 1970 estimate for the off-continent test readiness program will permit maintenance of essential elements of the current readiness capability while we embark on certain new activities related to the attainment of the goals of the new national nuclear test readiness plan.

On October 30, the Chairman of the Joint Committee was informed by letter from the Deputy Secretary of Defense that because of budget restrictions the Joint Task Force charged with maintaining atmospheric test readiness would be disbanded, although a small planning office would be attached to the Washington Headquarters of the Defense Atomic Support Agency.

The Joint Committee is concerned that safeguard provisions adopted in 1963 are being eroded. In the event that the Treaty is abrogated the United States may find itself in the same difficult position it was in 1961 when the U.S.S.R. broke the "informal" moratorium on nuclear testing in the atmosphere. In this connection the Chairman of the Joint Committee requested the Chairman of the AEC to provide certain classified information which the committee will evaluate prior to proceeding further.

F. Naval reactor program

On April 23, the Joint Committee held hearings in executive session on the naval nuclear propulsion program. At these hearings three extremely important issues were discussed: (1) the rapidly expanding Soviet naval threat, (2) the need for a vigorous nuclear submarine development and construction program, and (3) the need for upgrading our nuclear-powered surface naval striking forces.

It is clear from Admiral Rickover's testimony and the testimony of other Department of Defense, Navy, and Central Intelligence Agency officials to various committees of Congress that the Soviet Union is embarked on a program which reveals a singular awareness of the importance of seapower and an unmistakable resolve to become the most powerful maritime force in the world.

The Joint Committee concluded its hearings on this matter by reaffirming in the foreword to these hearings that the Congress must take the initiative to insure that the new warships we build for our first line naval striking force will have nuclear propulsion, and to insure that the program for improving and building nuclear submarines is aggressively pursued. The hearings entitled "Naval Nuclear Propulsion Program—1969" were published in June, 1969.

G. Food irradiation

During fiscal year 1970 authorization hearings on April 17, testimony showed that the AEC had asked the Bureau of the Budget to include in the AEC fiscal year 1970 budget request a total of \$1,450,000 for the two food irradiation programs, \$700,000 in biology and medicine program, and \$750,000 in isotopes development program. Subsequently when the proposed AEC budget was submitted to the Congress, the entire \$1,450,000 had been deleted and the AEC's food irradiation program was eliminated.

The Joint Committee, in its report on the authorization bill, recommended that \$750,000 be restored to the budget for the purpose of conducting the Division of Isotopes Development's low dose radiation preservation studies. While no appropriations were approved for this program for fiscal year 1970, both Houses did indicate in their respective reports, that the program should be continued by using other available program funds.

The Joint Committee believes that this program has the potential for achieving far-reaching benefits and expects to continue to support work in this field.

H. Confirmation hearings

The Senate section of the Joint Committee met in public session on May 22 to consider the nomination of Theos J. Thompson to be a member of the Atomic Energy Commission for the remainder of the term expiring June 30, 1971. The Senate confirmed the nomination on May 26. Theos Thompson replaced Gerald F. Tape.

On August 7, the Senate section of the Joint Committee met in public session to consider the nomination of Clarence E. Larson to be a member of the Atomic Energy Commission for the term of 5 years expiring June 30, 1974. The Senate confirmed the nomination on August 8. This position was held by Francesco Costagliola whose term expired on June 30, 1969.

IV. CLASSIFIED ACTIVITIES

A. NATO

The Joint Committee continues to follow closely developments in NATO particularly the plans and programs promulgated by NATO's nuclear planning group for possible response to aggression from the East.

An associated matter of concern to the committee is the protection of classified information in NATO. In the past several years there have been significant security leaks in NATO. The most recent incident involving apparent compromise of classified information was revealed to the public by the arrest last August of a French national employed by NATO. He was charged with a "grave breach of security."

B. Intelligence briefings

Representatives of the Central Intelligence Agency, the Department of Defense, and the Atomic Energy Commission have presented briefings to the committee on intelligence matters with particular reference to Communist China and the U.S.S.R.

C. Strategic Arms Limitation Talks (SALT)

On November 17 the United States and the Soviet Union began talks on strategic arms limitation in Helsinki, Finland. In connection with these talks, the chairman of the Joint Committee has exchanged correspondence with the Secretary of State and the Director of the Arms Control and Disarmament Agency. The committee believes that these discussions bear significantly on U.S. national security and expects to follow very closely developments in this vitally important area.

D. AEC Rocky Flats plant fire

On May 11, a major fire occurred at the Rocky Flats Plant of the AEC. The plant, which is 21 miles northwest of Denver, Colo., produces plutonium parts for nuclear weapons. The facility is operated for the AEC by the Dow Chemical Co. The fire, which caused an estimated \$45 million damage, occurred in building 776-777. Several million more dollars will be required to recycle the plutonium involved in the fire and for decontamination of the building. Very little of the plutonium in the fire will not be recoverable for reconversion from the oxide to metal.

The Joint Committee sent a staff representative to the scene to provide the committee with a first hand report on this matter. Subsequently the Joint Committee strongly urged the AEC to re-evaluate practices and procedures at Rocky Flats and other AEC installations with particular reference to improving fire prevention and fire protection.

V. OTHER ACTIVITIES

A. IAEA

A representative of the Joint Committee on Atomic Energy participated in the 13th General Conference of the International Atomic Energy Agency (IAEA) which began September 23. The Conference representatives stressed the importance of developing effective worldwide safeguard inspection procedures to insure that nuclear material is not diverted from peaceful purposes to nuclear weapons development. It is expected that EURATOM and IAEA will be discussing in detail ways and means of working out mutually acceptable inspection procedures to implement article III of the NPT following the signature by West Germany of the treaty.

B. Nuclear test—Amchitka, Alaska

Congressman Chet Holifield, chairman of the Joint Committee was present at the control point on the island of Amchitka, Alaska, when a nuclear device of about 1 megaton was detonated underground on Thursday, October 2. Preceding the test, despite the assurances of the Atomic Energy Commission and its consultants that the test would be safely conducted, there were numerous groups and individuals both in and out of Alaska who opposed the test because of fear of possible aftershock and tsunami problems as well as concern for possible effects on the ecology.

In a statement on the floor of the House (Congressional Record of Oct. 6, 1969, pp. H-9107-11) upon his return, Mr. Holifield reported, " * * * the test was successful in every phase * * * the explosion's register on the Richter scale was exactly as predicted. There was no release of fission products to the atmosphere. * * * There was no deleterious effect upon the ecology that could be traced to that event. * * * The particular test on Amchitka Island has been watched closely by the Joint Committee since it was proposed some 3 years ago. We have been aware of every state of its development. We have approved the program as being essential to the national security."

C. National Accelerator Laboratory

The President's fiscal year 1970 budget requested \$96 million for construction for the National Accelerator Laboratory and the 200 Bev accelerator now under construction at Batavia, Ill. This sum was reduced to \$64 million by the House and increased to \$70 million by a House-Senate conference. A study made earlier in the year by the AEC had indicated that to keep construction on schedule and to produce a first proton beam by July 1972 would require a minimum of \$89 million for fiscal year 1970 construction funds. It was estimated that funding below \$89 million, for example at the \$50-\$60 million level, would result in a one-year delay and an increase in costs of \$30 million above the estimated total of \$250 million.

A major concern of the Joint Committee is that the scientific experts now assembled to design and supervise construction of the accelerator

will become discouraged and seek employment elsewhere; thus, the 200 Bev could be delayed further. Should this happen, the United States would remain in second place in the field of experimental high-energy physics, behind the Soviet Union which now has a 76 Bev accelerator at Serpukhov. At present the largest U.S. accelerator operates at about 33 Bev.

D. Nuclear power on the moon

The Apollo-12 astronauts left on the moon four experiments, a central data processor and a radio system for data transmission. This Apollo lunar surface experiment package (ALSEP) is powered by a nuclear generator which uses the heat of decay of plutonium-238. The heat is applied to one side of a series of thermoelectric devices which generate electricity directly. This nuclear electrical generator, which has no moving parts, is the space nuclear auxiliary power system. It is the sole source of power for ALSEP.

The experiments, which are expected to record data for at least a year, are a passive seismic experiment, a lunar surface magnetometer, a solar wind spectrometer, and a suprathreshold ion detector. The SNAP-27 generator should be functioning normally significantly longer than a year. A complete description of the moon experiments powered by the SNAP-27 nuclear power supply was placed in the Congressional Record of December 8, page E10409, by Chairman Hollifield.

Two other nuclear electrical generators are also powering systems in space. The SNAP-19 is providing most of the power for the Nimbus weather satellite and the SNAP-3 navigational satellite, launched in 1961, is still operating.

E. Medical advances

The Joint Committee has for several years encouraged the clinical research program of Dr. George C. Cotzias and his colleagues at the AEC's Brookhaven National Laboratory in the use of L-dopa for the clinical treatment of neurological diseases, with primary emphasis on Parkinson's disease. L-dopa also significantly helps miners with chronic manganese poisoning. The latest use has been against another neurological disease—dystonia musculorum deformans—which seriously affects children by twisting its victim's limbs and sometimes by making them writhe uncontrollably from head to foot.

Dr. Cotzias was awarded the Albert Lasker Award in November 1969 for having developed the protocol which demonstrated the effectiveness of large daily doses of L-dopa in the treatment of Parkinson's disease. Dr. Cotzias' efforts were described by the New England Journal of Medicine as "the most important contribution to medical therapy of a neurological disease in the past 50 years."

